



STIC Search Report

EIC 3700

STIC Database Tracking Number: 103684

TO: Jila Mohandesi

Location: CP2 9622

Art Unit: 3728

Case Serial Number: 09/603222

From: Jeanne Horrigan

Location: EIC 3700

CP2-2C08

Phone: 305-5934

jeanne.horrigan@uspto.gov

Search Notes

Attached are the search results for the round disk with a 2-4-degree slant, including inventor and prior art searches in foreign and international patent databases, and prior art searches in medical and product-related non-patent literature databases and on the Web via the Google search engine.

Also attached is a search feedback form. Completion of the form is voluntary. Your completing this form would help us improve our search services.

I hope the attached information is useful. Please feel free to contact me (phone 305-5934 or email jeanne.horrigan@uspto.gov) if you have any questions or need additional searching on this application.

SEARCH REQUEST FORM**Scientific and Technical Information Center**

Requester's Full Name: EX. Mohandesi Examiner #: 74844 Date: 09/11/03
 Art Unit: 3728 Phone Number 30 5-7015 Serial Number: 09/603, 222
 Mail Box and Bldg/Room Location: 9322 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Balancing appliance

Inventors (please provide full names): Merel Epstein

Earliest Priority Filing Date: Sept 15, 1997

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

A disc comprising a substantially rigid, circular, wedge member having a planar upper ^{and lower} surfaces, the upper and lower surfaces being angularly inclined with respect to each other by an angle θ of about 2° to about 6° the disc being angularly oriented at any desired angle.

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Juanita Hernandez</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: _____	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

File 155:MEDLINE(R) 1966-2003/Sep W2
File 5:Biosis Previews(R) 1969-2003/Sep W2
File 73:EMBASE 1974-2003/Sep W3
File 34:SciSearch(R) Cited Ref Sci 1990-2003/Sep W3
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

Set	Items	Description
S1	1451	AU='EPSTEIN M'
S2	348	AU='EPSTEIN M.'
S3	409460	BALANC?
S4	68	S1:S2 AND S3
S5	92878	ORTHOT? OR ORTHOS?
S6	2	S4 AND S5 [not relevant]
S7	66	S4 NOT S6
S8	44	RD (unique items)
S9	44	Sort S8/ALL/PY,D [not relevant]

File 348:EUROPEAN PATENTS 1978-2003/Sep W02
File 349:PCT FULLTEXT 1979-2002/UB=20030918,UT=20030911

Set	Items	Description
S1	2	AU='EPSTEIN MEREL' [duplicates]

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200361
File 347:JAPIO Oct 1976-2003/May(Updated 030902)
File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	76	AU='EPSTEIN M'
S2	260456	BALANC?
S3	2	S1 AND S2

3/7/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
015479372 **Image available**
WPI Acc No: 2003-541519/200351

**Diagnostic orthotic wedge for inversion or eversion of foot of user,
includes rectangular member having upper and lower surfaces**

Patent Assignee: EPSTEIN M (EPST-I)
Inventor: **EPSTEIN M**

Number of Countries: 099 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200347475	A1	20030612	WO 2002US38890	A	20021205	200351 B

Priority Applications (No Type Date): US 2001338338 P 20011205

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200347475	A1	E	13	A61F-005/14	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
OM PH PL PT RO RU SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA
ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB
GR IE IT LU MC NL OA PT SE SI SK TR

Abstract (Basic): WO 200347475 A1

NOVELTY - A diagnostic orthotic wedge comprises a rectangular member having an upper surface (14) and a lower surface. The upper surface is inclined with respect to the lower surface at 2-6degrees.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

(1) a kit for enabling the measurement of the inversion or eversion of a foot comprising the inventive wedges; and

(2) a method for **balancing** the gait of the user, comprising measuring the degree of inversion or eversion of the heel of the foot of the user; selecting an appropriate circular disk, in response to the measured inversion or eversion; and securing the circular disk to an orthotic device; where the angle of inversion or eversion determined by the wedge.

USE - The invention is used for inversion or eversion of the heel of the foot of a user.

ADVANTAGE - The invention readily determines the necessary angle, thus providing a proper foot **balance**.

DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of the diagnostic **balancing** device.

Upper surface (14)

pp; 13 DwgNo 1/4

Derwent Class: A96; P32; S02

International Patent Class (Main): A61F-005/14

3/7/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012339201 **Image available**

WPI Acc No: 1999-145308/199913

Orthotic balancing disc for inserting into footwear has top and bottom surface inclined at specific angle to each other

Patent Assignee: EPSTEIN M (EPST-I)

Inventor: **EPSTEIN M**

Number of Countries: 004 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2329101	A	19990317	GB 9820027	A	19980915	199913 B
CA 2245218	A1	19991212	CA 2245218	A	19980817	200022
AU 9895187	A	20000608	AU 9895187	A	19981202	200035 N
US 6098319	A	20000808	US 9758828	A	19970915	200040
			US 9896946	A	19980612	

GB 2329101 B 20010613 GB 9820027 A 19980915 200134

Priority Applications (No Type Date): US 9896946 A 19980612; US 9758828 P 19970915; AU 9895187 A 19981202

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2329101	A		9	A43B-007/22	
CA 2245218	A1 E			A61F-005/14	
AU 9895187	A			A61F-005/14	
US 6098319	A			A61F-005/14	Provisional application US 9758828
GB 2329101	B			A43B-007/22	

Abstract (Basic): GB 2329101 A

NOVELTY - The disc (16) has top (32) and bottom (34) surfaces which are inclined at an angle of 2 degrees to 6 degrees with respect to each other.

DETAILED DESCRIPTION - The disc is flexible and has adhesive on one side. An INDEPENDENT CLAIM is included for an orthotic assembly.

USE - For inserting into foot wear to give a user enhanced biomechanical **balance** and weight distribution during standing and walking. For use in chiropracty, physical therapy, orthopedics, osteopathy, and general health care.

ADVANTAGE - Provides a universal device for providing **balancing** and weight distribution adjustment which is easily integrated with existing orthotic foot devices as well as into other footwear items or devices.

DESCRIPTION OF DRAWING(S) - The drawing shows a side view of an orthotic foot device deploying the **balancing** disc.

disc (16)

top surface (32)

bottom surface (34)

pp; 9 DwgNo 3/4

Derwent Class: P22; P32

International Patent Class (Main): A43B-007/22; A61F-005/14

International Patent Class (Additional): A61F-005/14

File 609:Bridge World Markets 2000-2001/Oct 01

File 610:Business Wire 1999-2003/Sep 26

File 613:PR Newswire 1999-2003/Sep 26

File 810:Business Wire 1986-1999/Feb 28

File 813:PR Newswire 1987-1999/Apr 30

Set	Items	Description
S1	158575	CIRCULAR OR CIRCLE OR ROUND
S2	94089	DISC OR DISCS OR DISK? ? OR WEDGE OR WEDGES
S3	38415	SLANT??? OR ANGLE? ? OR INCLIN? OR TILT??? OR SLOPE? ? OR - SLOPING OR GRADIENT OR OBLIQUE
S4	22252	PITCH?? OR SLOPE?? OR SLOPING
S5	19	S1()S2
S6	0	S5(5N)S3:S4
S7	0	S5(S)S3:S4

File 149:TGG Health&Wellness DB(SM) 1976-2003/Sep W1

File 636:Gale Group Newsletter DB(TM) 1987-2003/Sep 25

File 441:ESPICOM Pharm&Med DEVICE NEWS 2003/Sep W3

File 20:Dialog Global Reporter 1997-2003/Sep 26

File 141:Readers Guide 1983-2003/Aug

File 481:DELPHES Eur Bus 95-2003/Sep W3

File 482:Newsweek 2000-2003/Sep 13

File 484:Periodical Abs Plustext 1986-2003/Sep W3

File 635:Business Dateline(R) 1985-2003/Sep 25

File 646:Consumer Reports 1982-2003/Sep

Set	Items	Description
S1	1459728	CIRCULAR OR CIRCLE OR ROUND
S2	368160	DISC OR DISCS OR DISK? ? OR WEDGE OR WEDGES
S3	497714	SLANT??? OR ANGLE? ? OR INCLIN? OR TILT??? OR SLOPE? ? OR - SLOPING OR GRADIENT OR OBLIQUE
S4	460849	PITCH?? OR SLOPE?? OR SLOPING
S5	452	S1()S2
S6	6	S5(5N)S3:S4
S7	4	RD (unique items) [not relevant]
S8	14	S5(S)S3:S4 NOT S6
S9	13	RD (unique items)
S10	5	S9/2001:2003
S11	3	S9/1998:2000
S12	5	S9 NOT S10:S11
S13	5	Sort S12/ALL/PD,D [1 duplicate; the rest not relevant]

File 111:TGG Natl.Newspaper Index(SM) 1979-2003/Sep 24

File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13

File 473:FINANCIAL TIMES ABSTRACTS 1998-2001/APR 02

File 474:New York Times Abs 1969-2003/Sep 25

File 475:Wall Street Journal Abs 1973-2003/Sep 24

Set	Items	Description
S1	50485	CIRCULAR OR CIRCLE OR ROUND
S2	37794	DISC OR DISCS OR DISK? ? OR WEDGE OR WEDGES
S3	11628	SLANT??? OR ANGLE? ? OR INCLIN? OR TILT??? OR SLOPE? ? OR - SLOPING OR GRADIENT OR OBLIQUE
S4	19617	PITCH?? OR SLOPE?? OR SLOPING
S5	0	S1()S2(5N)S3:S4
S6	4	S1()S2
S7	0	S3:S4 AND S6

File 155:MEDLINE(R) 1966-2003/Sep W3
File 5:Biosis Previews(R) 1969-2003/Sep W2
File 73:EMBASE 1974-2003/Sep W3
File 34:SciSearch(R) Cited Ref Sci 1990-2003/Sep W3
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
File 144:Pascal 1973-2003/Sep W2
File 6:NTIS 1964-2003/Sep W3
File 8:Ei Compendex(R) 1970-2003/Sep W2
File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Aug
File 65:Inside Conferences 1993-2003/Sep W3
File 35:Dissertation Abs Online 1861-2003/Aug
File 94:JICST-EPlus 1985-2003/Sep W3
File 95:TEME-Technology & Management 1989-2003/Sep W1

Set	Items	Description
S1	595608	CIRCULAR OR CIRCLE OR ROUND
S2	541828	DISC OR DISCS OR DISK? ? OR WEDGE OR WEDGES
S3	1937277	SLANT??? OR ANGLE? ? OR INCLIN? OR TILT??? OR SLOPE? ? OR - SLOPING OR GRADIENT OR OBLIQUE
S4	423682	PITCH?? OR SLOPE?? OR SLOPING
S5	3786	S1()S2
S6	352	S5(S)S3
S7	38	S5(S)S4
S8	58	S5(3N)S3:S4
S9	37	RD (unique items)
S10	9	S9/2000:2003
S11	5	S9/1998:1999
S12	3	S9/1997
S13	20	S9 NOT S10:S12
S14	20	Sort S13/ALL/PY,D
S15	18	S5(5N)S3:S4 NOT S8
S16	11	RD (unique items)
S17	0	S16/2000:2003
S18	3	S16/1998:1999
S19	8	S16 NOT S18
S20	37	Sort S9/ALL/PY,D
S21	8	Sort S19/ALL/PY,D

12/7,K/1 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

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06747725 EMBASE No: 1997029201

Calculation of the average solid angle subtended by a circular disc detector to a circular disc source

Yi C.Y.; Jun J.S.

C.Y. Yi, Department of Physics, Chungnam National University, Taejon
305-764 South Korea

Radiation Protection Dosimetry (RADIAT. PROT. DOSIM.) (United Kingdom)
1997, 69/2 (149-154)

CODEN: RPDOD ISSN: 0144-8420

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 7

The average solid angle subtended by a circular disc to a circular disc was calculated and tabulated for various radii of the circular discs. During the course of calculation, the circular discs were replaced by both circumscribed and inscribed polygons. The calculated values agreed within

0.02% with those suggested by Gardner and Verghese. The present method is simpler to formulate than the existing methods and can be used to evaluate the error involved in the calculation of the average solid angle.

12/7,K/2 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2003 Inst for Sci Info. All rts. reserv.

05756896 Genuine Article#: WV944 Number of References: 24

Title: Angular distribution of the solid angle at a point subtended by a circular disk

Author(s): Tryka S (REPRINT)

Corporate Source: AGR UNIV LUBLIN, INST AGR SCI, PHYS LAB, SZCZEBRZESKA
102/PL-22400 ZAMOSC//POLAND/ (REPRINT)

Journal: OPTICS COMMUNICATIONS, 1997, V137, N4-6 (MAY 1), P317-333

ISSN: 0030-4018 Publication date: 19970501

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

Language: English Document Type: ARTICLE

Abstract: The formula to estimate the angular dependence of the solid angle at a point subtended by a circular disk in the cylindrical coordinate system is derived. This formula is integrated with respect to the polar angle to obtain expressions for numerical and analytical calculations of the solid angle values. These expressions are given as single integrated superpositions of elementary functions and as complete elliptic integrals of the first and third kinds. In both cases the solid angle functions depend on the disk radius, separation of the point to the plane covering the surface of the disk, lateral distance from the point to the polar axis and the angle at the point determined between the direction made by conical sheets, which cross the circular disk, and the direction parallel to the polar axis. Combining solid angle formulas with expressions for Fresnel's refraction coefficient, the angular distribution of the flux of the light emitted isotropically from a point source and transmitted through a thin circular refractive medium has been estimated. A similar consideration for the flux of the light reflected by a circular nonconductor has been also presented. Some examples of graphs are given.

14/7/15 (Item 15 from file: 434)

DIALOG(R)File 434:SciSearch(R) Cited Ref Sci

(c) 1998 Inst for Sci Info. All rts. reserv.

02252942 Genuine Article#: FS237 Number of References: 2

Title: GENERALIZED CORRELATION FOR FREE-CONVECTIVE IONIC MASS-TRANSPORT AT INCLINED CIRCULAR DISK ELECTRODES

Author(s): QURAISHI MS; FAHIDY TZ

Corporate Source: UNIV WATERLOO, DEPT CHEM ENGN/WATERLOO N2L
3G1/ONTARIO/CANADA/

Journal: ELECTROCHIMICA ACTA, 1978, V23, N9, P963-964

Language: ENGLISH Document Type: NOTE

14/7/16 (Item 16 from file: 434)

DIALOG(R)File 434:SciSearch(R) Cited Ref Sci

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01844895 Genuine Article#: EG529 Number of References: 13

Title: FREE-CONVECTIVE IONIC MASS-TRANSPORT AT INCLINED CIRCULAR DISK ELECTRODES

Author(s): QURAISHI MS; FAHIDY TZ

Corporate Source: UNIV WATERLOO, DEPT CHEM ENGN/WATERLOO N2L

ASRC Searcher: Jeanne Horrigan
Serial 09/603222
September 26, 2003

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3G1/ONTARIO/CANADA/
Journal: ELECTROCHIMICA ACTA, 1978, V23, N1, P33-38
Language: ENGLISH Document Type: ARTICLE

File 98:General Sci Abs/Full-Text 1984-2003/Aug
File 9:Business & Industry(R) Jul/1994-2003/Sep 25
File 16:Gale Group PROMT(R) 1990-2003/Sep 25
File 160:Gale Group PROMT(R) 1972-1989
File 148:Gale Group Trade & Industry DB 1976-2003/Sep 26
File 47:Gale Group Magazine DB(TM) 1959-2003/Sep 25
File 621:Gale Group New Prod.Annou.(R) 1985-2003/Sep 26
File 649:Gale Group Newswire ASAP(TM) 2003/Sep 24
File 80:TGG Aerospace/Def.Mkts(R) 1986-2003/Sep 25
File 88:Gale Group Business A.R.T.S. 1976-2003/Sep 26

Set	Items	Description
S1	1077532	CIRCULAR OR CIRCLE OR ROUND
S2	838052	DISC OR DISCS OR DISK? ? OR WEDGE OR WEDGES
S3	552514	SLANT??? OR ANGLE? ? OR INCLIN? OR TILT??? OR SLOPE? ? OR - SLOPING OR GRADIENT OR OBLIQUE
S4	364559	PITCH?? OR SLOPE?? OR SLOPING
S5	595	S1()S2
S6	49	S5(S)S3:S4
S7	5	S5(5N)S3:S4
S8	4	RD (unique items) [not relevant]
S9	45	S6 NOT S7
S10	32	RD (unique items)
S11	4	S10/2001:2003
S12	14	S10/1998:2000
S13	2	S10/1997 [not relevant and too recent]
S14	12	S10 NOT S11:S13
S15	12	Sort S14/ALL/PD,D

15/3,AB,K/1 (Item 1 from file: 88)

DIALOG(R)File 88:Gale Group Business A.R.T.S.

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03968510 SUPPLIER NUMBER: 18442957

The relation between thickness and warpage in a disk injection molded from fiber reinforced PA66.

Kikuchi, Hiroyuki; Koyama, Kiyohito

Polymer Engineering and Science, v36, n10, p1317(9)

May, 1996

ISSN: 0032-3888 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 4370 LINE COUNT: 00367

AUTHOR ABSTRACT: The relation between warpage and part thickness was investigated for a disk injection molded from PA66 compounded with 33 wt% glass fiber. A thin disk (1.5 mm thick) showed significant warpage, of magnitude 6.5 mm, while a thick disk (5.0 mm thick) did not warp. Finite element analyses were conducted, and the experimental results were numerically reproduced with 21% accuracy. It has been found that the thickness dependence of the disk warpage originates from the thickness dependence of the buckling temperature of the disk, and that quantitative disk warpage depends on the temperature of warpage measurement. Thickness change affects the amount of warpage but does not change essential warpage characteristics of the disk, characteristics such as inherent warpage deformation geometry and qualitative fiber orientation.

... qualitative fiber orientation in these layers coincided with the experiment that was conducted for a **circular disk** (15). In Case 5 (5.0 mm thick), fibers orient along the circumferential direction in...

15/3,AB,K/3 (Item 3 from file: 148)

ASRC Searcher: Jeanne Horrigan
Serial 09/603222
September 26, 2003

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DIALOG(R) File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.
06426189 SUPPLIER NUMBER: 13604674 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A wide world of sports shoes: fixtures enhance appeal of World Foot Locker.
(Kinney Shoe Corp. Foot Locker Division)

Chain Store Age Executive with Shopping Center Age, v69, n1, p176(2)
Jan, 1993

ISSN: 0193-1199 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 812 LINE COUNT: 00061

... designed for each unit. Just over 4 ft. high, they rise at an 85 degree **angle**. The T-stands are topped with 18-in. **circular disks** of 3/4-in. acrylic plastic. Used as display platforms for shoes, the edges glow...

File 148:Gale Group Trade & Industry DB 1976-2003/Sep 26
File 16:Gale Group PROMT(R) 1990-2003/Sep 25
File 160:Gale Group PROMT(R) 1972-1989
File 47:Gale Group Magazine DB(TM) 1959-2003/Sep 25
File 88:Gale Group Business A.R.T.S. 1976-2003/Sep 26
File 484:Periodical Abs Plustext 1986-2003/Sep W3
File 727:Canadian Newspapers 1990-2003/Sep 26

Set	Items	Description
S1	13	(CIRCULAR OR ROUND) () (WEDGE OR WEDGES)
S2	12	RD (unique items)
S3	463732	SLANT??? OR ANGLE? ? OR INCLIN?
S4	815872	TILT??? OR SLOPE? ? OR GRADIENT? OR PITCH??? OR SLOPING
S5	1	S2(S)S3 [not relevant]
S6	0	S2(S)S4

File 194:FBODaily 1982/Dec-2003/Apr

S1 1 (ROUND OR CIRCULAR) () (WEDGE OR WEDGES) (S) PRISM? ?

1/3,AB,K/1

DIALOG(R)File 194:FBODaily

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1228333

BAFFLE PLATE ASSY

Plate Stainless Steel 20 in by 14 in by 0.5 in tk with many holes and opening, SS Spocket, **round wedge** optional **prism** and other hardware items. End use optical instrument for M1 Tank. MIL-I-45208 Inspection Criteria, NSN: 1230-01-152-5345, P/N: 12316308, End Use: M1 Tank, Qty: 87 ea, FOB Destination. Issue date is o/a 31 Dec 85. Closing date is o/a 30 Jan 86. Request for Sol should include contractor size and FSCM to facilitate handling. Sol DAAA09-86-R-0240. See Notes 57 & 66. (350)

SPONSOR: U.S. Army Armament Munitions & Chemical Command, Attn:
AMSMC-PCM-MS, Rock Island, IL 61299, Tel: 309/782-4664 or 4166

PUBLICATION DATE: DECEMBER 19, 1985

File 2:INSPEC 1969-2003/Sep W2

File 51:Food Sci.&Tech.Abs 1969-2003/Sep W2

Set	Items	Description
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S1	2	(ROUND OR CIRCULAR) () (WEDGE OR WEDGES) (S) DEGREE? ?
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1/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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03933124 INSPEC Abstract Number: B91052937

Instrument for measuring gaps using circular wedge-type measuring elements

Author(s): Kubrin, A.V.

Journal: Izmeritel'naya Tekhnika vol.33, no.6 p.19-20

Publication Date: June 1990 Country of Publication: USSR

CODEN: IZTEAW ISSN: 0021-3349

Translated in: Measurement Techniques vol.33, no.6 p.558-60

Publication Date: June 1990 Country of Publication: USA

CODEN: MSTCAL ISSN: 0543-1972

U.S. Copyright Clearance Center Code: 0543-1972/90/3306-0558\$12.50

Language: English

Subfile: B

...Abstract: leads to increase in its length and consequent difficulties

in measuring an instrument with a **circular wedge** -type measuring element. A gauge IP-2 made on the principle of such an instrument...
... technical characteristics are as follows: measuring range 0.5-3.5 mm; diameter of the **circular wedge** -type measuring element 80 mm; depth of entry of the **circular wedge** into the measured gap 3.0 mm; measurement error not more than ± 0.06 ...
... mm. The instrument is intended for measurement of gaps inclined at an angle of 83 **degrees** to the vertical.

File 2:INSPEC 1969-2003/Sep W2
File 440:Current Contents Search(R) 1990-2003/Sep 26
File 8:Ei Compendex(R) 1970-2003/Sep W2
File 34:SciSearch(R) Cited Ref Sci 1990-2003/Sep W3
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
File 144:Pascal 1973-2003/Sep W2
File 62:SPIN(R) 1975-2003/Aug W2
File 94:JICST-EPlus 1985-2003/Sep W3
File 6:NTIS 1964-2003/Sep W4
File 65:Inside Conferences 1993-2003/Sep W3
File 95:TEME-Technology & Management 1989-2003/Sep W1
File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Aug
File 103:Energy SciTec 1974-2003/Sep B1
File 119:Textile Technol.Dig. 1978-2003/Jun

Set	Items	Description
S1	92	(CIRCULAR OR ROUND) () (WEDGE OR WEDGES)
S2	46	RD (unique items)
S3	1313849	SLANT??? OR ANGLE? ? OR INCLIN?
S4	1365559	TILT??? OR SLOPE? ? OR GRADIENT? OR PITCH???
S5	13	S2 AND S3
S6	7	S2 AND S4
S7	19	S5:S6
S8	9	S7/2001:2003
S9	6	S7/1998:2000
S10	4	S7 NOT S8:S9

10/7,K/2 (Item 1 from file: 62)

DIALOG(R)File 62:SPIN(R)

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00924633

Observation of Dispersion Behavior of Acoustic Wedge Waves Propagating along the Tip of a Circular Wedge with Laser Ultrasonics

Yang, Che-Hua ; Liaw, Jiann-Shuoh

Department of Mechanical Engineering, Chang Gung University, 259 Wen-Hua First Rd., Kwei-Shan, Taoyuan, Taiwan, R.O.C.

39(5A),2741-2743 (5 05. 2020) CODEN: JAPND

Work Type: EXPERIMENTAL; METHOD

This research is focused on measuring the dispersion behavior of acoustic wedge waves propagating along the tip of **circular wedges** with a laser-generation/laser-detection laser ultrasound technique. The unexpected measurement results indicate that the dispersion relation of the fundamental antisymmetric flexural (ASF) mode has a negative **slope** in the phase velocity-frequency dispersion space for a nearly truncation-free **circular wedge**. It is also observed that, at the low-frequency, or long-wavelength limit, the fundamental ASF mode of the **circular wedge** has a phase velocity higher than that of a straight wedge due to the curvature effect. However, at the high-frequency, or short-wavelength limit, the fundamental ASF mode of the **circular wedge** becomes insensitive to the curvature effect and is dominated by the truncation effect.

10/7,K/4 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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00178873 JICST ACCESSION NUMBER: 86A0053530 FILE SEGMENT: JICST-E

Aerodynamic hysteresis characteristics of 1/3-thickness circular wedge airfoil.

TAKIZAWA NAOTO (1); IWASAKI AKITO (1)
(1) National Aerospace Lab.
Ryutai Rikigaku Koenkai Koenshu, 1985, VOL.17th, PAGE.122-125, FIG.6, REF.2
JOURNAL NUMBER: Z0903AAT
UNIVERSAL DECIMAL CLASSIFICATION: 629.73.015+533.6
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication

File 275:Gale Group Computer DB(TM) 1983-2003/Sep 25
File 727:Canadian Newspapers 1990-2003/Sep 26
File 738:(Allentown) The Morning Call 1990-2003/Sep 25

Set	Items	Description
S1	3	(ROUND OR CIRCULAR) () (WEDGE OR WEDGES) (S) DEGREE? ?

1/3,AB,K/1 (Item 1 from file: 275)
DIALOG(R) File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.
01753099 SUPPLIER NUMBER: 16645507 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A new design approach for a programmable optical attenuator. (HP 8156A

optical attenuator) (Technical)
Schmidt, Siegmur; Fischer, Halmo
Hewlett-Packard Journal, v46, n1, p34(6)
Feb, 1995

DOCUMENT TYPE: Technical ISSN: 0018-1153 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3381 LINE COUNT: 00271

ABSTRACT: The increased data rates of today's digital transmission systems and new analog systems employed in cable television (CATV) require new standards for test and measurement equipment. These systems require optical attenuators with high return loss for the measurement of bit error rates and noise performance. Parameters that were considered less important, such as polarization dependent loss and high input power, are increasing in importance because of the longer links provided by erbium-doped amplifiers. The high costs of production demand high yields and throughput, requiring reduced test margins that show the true performance of tested devices. The HP 8156A optical attenuator provides improved performance and focuses on these parameters with increased importance.

... of 0.5 dB is the upper tolerance limit for these applications. Transformed onto the **circular wedge** filter driven by a positioning system with an angular resolution of 0.009 **degree**, this results in a maximum overshoot of approximately 0.5% for an angular step of 180 **degrees**.

Optical attenuators are mainly used for device characterization in production areas, especially in automatic test...

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200361
File 347:JAPIO Oct 1976-2003/May(Updated 030902)
File 371:French Patents 1961-2002/BOPI 200209
File 344:Chinese Patents Abs Aug 1985-2003/Apr

Set	Items	Description
S1	482411	CIRCULAR OR CIRCLE OR ROUND
S2	665669	DISC OR DISCS OR DISK? ? OR WEDGE OR WEDGES
S3	1306157	SLANT??? OR ANGLE? ? OR INCLIN? OR TILT??? OR SLOPE? ? OR - SLOPING OR GRADIENT OR OBLIQUE
S4	251045	PITCH?? OR SLOPE?? OR SLOPING
S5	4875	S1()S2
S6	82	S5(5N)S3:S4
S7	767	IC=A61F-005/14
S8	198	IC=A43B-007/22
S9	0	S6 AND S7:S8
S10	16	S6/TI
S11	633287	DISC OR DISK OR WEDGE
S12	3920	S1()S11
S13	33999	12(5N)S3:S4
S14	59	S12(5N)S3:S4
S15	34	S12(3N)S3:S4
S16	27	S15 NOT S10
S17	69701	SHOE OR SHOES OR ORTHOTIC? ?
S18	0	S6 AND S17
S19	0	S5 AND S18 AND S3:S4
S20	2536	DOOR()STOP???? OR DOORSTOP?
S21	0	S6 AND S20
S22	5843182	SURFACE OR SIDE OR TOP OR TOPMOST
S23	96631	S3:S4(2N)S22
S24	4	S6 AND S23
S25	3	S24 NOT (S10 OR S16)
S26	1	S5 AND S3:S4 AND S7:S8 [a duplicate]
S27	21	S1:S2 AND S3:S4 AND S7:S8 NOT (S10 OR S16 OR S26)

10/7,K/13 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX
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002333086

WPI Acc No: 1980-D9527C/198018

Compasses for drawing ellipses - has three linked arms and uses circular disc inclined at angle to guide drawing arm

Patent Assignee: LALANNE P (LALA-I)

Inventor: LALANNE P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2431378	A	19800321				198018 B

Priority Applications (No Type Date): FR 7821644 A 19780719

Abstract (Basic): FR 2431378 A

The pair of compasses for drawing ellipses has two arms (3, 13) each with a pointed lower end (11, 12), and joined by a link (21) at their upper ends. The arm (3) is fitted with a **circular disc (1) which can be clamped in any position in a longitudinal slot and inclined at any angle.**

A third arm (6), which carries a pencil point, pivots about the upper end of the arm which carries the disc so that as it rotates it is

guided by the edge of the disc. The pencil point thus traces out an ellipse which is an enlarged and vertically projected view of the inclined disc.

Derwent Class: P77

International Patent Class (Additional): B43L-011/04

16/7,K/6 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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010711451 **Image available**

WPI Acc No: 1996-208406/199621

Disc shaped sealing device for use with plastic fitting in drain, vent, waste plumbing system - has pair of elongated grooves formed in one of its surfaces and spaced short distance from each other and extending around circular disc in spiral like configuration

Patent Assignee: PALMER D D (PALM-I)

Inventor: PALMER D D

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5507501	A	19960416	US 94297764	A	19940830	199621 B
CA 2158707	A	19970321	CA 2158707	A	19950920	199730 N

Priority Applications (No Type Date): US 94297764 A 19940830; CA 2158707 A 19950920

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5507501	A		8	F16J-009/00	
CA 2158707	A			F16J-015/00	

Abstract (Basic): US 5507501 A

The device includes a lug extending downwardly from the second surface of the **circular disc**. The lug has a forward end, opposite sides and a back end that are joined integrally along mutually its respective proximal side edges to the **circular disc**. First and second elongate grooves are formed in one of the first and second surfaces of the **circular disc**.

The first and second elongate grooves having a common juncture positioned near the forward end of the lug, with the first and second elongate grooves diverging from the common juncture and extending along the opposite sides of the lug to near the back end of the lug. E.g. with the first and second elongate grooves then further extend from near the back end of the lug. As result the first groove curves in an arc around the perimeter of the **circular disc** so as to extend at least partially around the perimeter of the **circular disc** adjacent to the **angled** flange.

USE/ADVANTAGE - In variety of plumbing systems. Inexpensive, foolproof, easy to install and fabricate.

Dwg.4/4

Derwent Class: Q65; S02

International Patent Class (Main): F16J-009/00; F16J-015/00

International Patent Class (Additional): G01M-003/04; G01M-003/08

25/7,K/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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004660173

WPI Acc No: 1986-163515/198626

Prodn. of cutting structures for rotary drill bits - by brazing diamond cutter to carrier of specific thermal expansion behaviour

Patent Assignee: NL PETROLEUM PROD LTD (NATL); REED TOOL CO (CMCO)

Number of Countries: 011 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 185537	A	19860625	EP 85309157	A	19851216	198626 B
ZA 8509565	A	19860915	ZA 859565	A	19851213	198652
US 4699227	A	19871013	US 85808328	A	19851212	198743
US 4781256	A	19881101	US 8768632	A	19870630	198846
CA 1252457	A	19890411				198919
EP 185537	B	19900411				199015
DE 3577053	G	19900517				199021

Priority Applications (No Type Date): GB 8431633 A 19841214; US 85808328 A 19851212

Cited Patents: A3...8737; DE 2457198; EP 29535; FR 2240791; FR 2280472; FR 2388983; FR 2498962; No-SR.Pub; US 4110084; US 4627503

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 185537	A	E	15		
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Designated States (Regional): BE CH DE FR GB LI NL SE

EP 185537	B	E			
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Designated States (Regional): BE CH DE FR GB LI NL SE

Abstract (Basic): EP 185537 A

Cutter is formed by brazing a thermally stable polycrystalline diamond cutting element to a carrier, the difference in coefft. of thermal expansion between diamond cutting element and carrier at the brazing temp. being less than that between WC and the diamond cutting element. Difference in coefft. of expansion between carrier and the polycrystalline diamond is pref. below 3×10^{-6} power -6 per deg. C; pref. carrier is SiC.

USE/ADVANTAGE - In deep drilling in subsurface formations. Stress between carrier and cutter during brazing are reduced. Brazing material is Cu-P or Ge-Si opt. contg. Ti. Cutter is coated with a pre-brazing material, pref. a Cu alloy contg. Cr, V, Ti or B; or Cr; Ti, Zr or Si. The material is vapour deposited and then heat treated. Cutter is a flat disc and carrier is a cylinder with a flat, angled face. Cutting structure and drill but incorporating it are claimed.

Abstract (Equivalent): EP 185537 B

A method of forming a cutting structure for a rotary drill bit comprising brazing a pre-formed thermally stable polycrystalline diamond cutting element (10) to a separately pre-formed carrier, characterised in that the carrier (11) is formed of silicon carbide, and in that the difference in coefficient of thermal expansion between said silicon carbide and the polycrystalline diamond material at the brazing temperature, is less than 3×10^{-6} power/deg.C. (6pp)

Abstract (Equivalent): US 4781256 A

Cutting structure for a rotary drill bit comprises a pre-formed thermally stable polycrystalline diamond cutting element brazed to a separately pre-formed carrier. Carrier material has a coefft. of thermal expansion such that, at brazing temp., the difference in coefft. between the material and diamond is less than the difference in coefft. between W carbide and polycrystalline diamond, pref. is less than 3×10^{-6} power -6 deg.C. **Cutting element is pref. a flat circular disc and carrier has an inclined surface at an angle to its longitudinal axis.**

ADVANTAGE - Failure or weakening of the bond between carrier and cutting element is reduced. (5pp)

US 4699227 A

A rotary drilling bit is produced by initially brazing a preformed, thermally stable polycrystalline diamond cutting element to a separately preformed carrier e.g. of silicon carbide. The thermal expansion difference at brazing temp. between carrier and the diamond insert is less than between tungsten carbide and the diamond material.

The cutting element is pref, brazed to the carrier using a copper/phosphorous alloy or a germanium/silicon alloy opt. containing phosphorous.

ADVANTAGE - The method produces a drill bit which can withstand higher operating temperatures. (5pp)p
Derwent Class: H01; L02; M23; P52; P55; Q49
International Patent Class (Additional): B21K-005/02; B23K-001/19;
B23K-031/04; E21B-010/52

25/7,K/3 (Item 1 from file: 347)

DIALOG(R) File 347:JAPIO

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03017445 **Image available**

OPTICAL DISK

PUB. NO.: 01-315045 [JP 1315045 A]

PUBLISHED: December 20, 1989 (19891220)

INVENTOR(s): MATSUMOTO TAKAYUKI
KUROSAWA FUMIO

APPLICANT(s): NEC HOME ELECTRON LTD [000193] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 63-163444 [JP 88163444]

FILED: June 30, 1988 (19880630)

ABSTRACT

PURPOSE: To increase the chemical bonding strength between films and to improve weatherability and exfoliation resistance by interposing a silane coupling agent between an inorganic protective film and resin film to be provided on a transparent substrate of the disk with which the reproduction of recorded information is executed by irradiation of laser light.

CONSTITUTION: Grooves for guiding laser light are spirally provided at prescribed **pitches** on the **surface** of a **circular disk** -shaped disk 1 consisting of transparent polycarbonate, acryl, glass, etc., and the inorganic protective film 2 consisting of SiN, etc., is deposited thereon. The Kerr rotating power is previously increased by effecting multiplex reflections between the boundary .alpha. side of the substrate 1 and the boundary .beta. side of the magnetic film 3 to be provided later. The magnetic film 3 consisting of TbFeCo, etc., is then deposited thereon and the inorganic protective film 4 is laminated thereon; further, the resin film 6 consisting of an acrylic resin, etc., is provided via the silane coupling agent 5. The surface water, acid, etc., on the film 4 and hydrogen are bonded by using 3-methacryloxytrimethoxysilane as the silane coupling agent 5 in order to enhance the adhesive property of the films 4 and 6.

27/7,K/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014954760 **Image available**

WPI Acc No: 2003-015274/200301

Orthotic device for inserting within heel portion of shoe of user, has cup material having cushion material which underlie cut-out of wedge material when cup material is positioned adjacent wedge material

Patent Assignee: BENNETT W S (BENN-I); EVERS M L (EVER-I); KRUSENKLAUS J H (KRUS-I)

Inventor: BENNETT W S; EVERS M L; KRUSENKLAUS J H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6460275	B1	20021008	US 2001795900	A	20010228	200301 B

Priority Applications (No Type Date): US 2001795900 A 20010228

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6460275	B1		9	A61F-005/14	

Abstract (Basic): US 6460275 B1

NOVELTY - The orthotic device has a **sloped wedge** material (12) with a cut-out (30) for receiving a portion of the heel of a user, and a cup material (14) positionable adjacent the **wedge** material. The cup material has a cushion material (52) which underlie the cut-out of the **wedge** material when the cup material is positioned adjacent the **wedge** material.

USE - For inserting within heel portion of shoe of user.

ADVANTAGE - Provides an orthotic device for inhibiting excessive pronation or excessive supination of user's foot, and for comforting associated pain by cushioning the heel of the foot. Effectively relieves pain by dispersing heel strike force during gait cycle. Ensures simple and economical manufacture of the orthotic device.

DESCRIPTION OF DRAWING(S) - The figure shows the posterior view of the rear cross-section of the orthotic device.

Sloped wedge material (12)

Cup material (14)

Cut-out (30)

Cushion material (52)

pp; 9 DwgNo 7/7

Derwent Class: P32

International Patent Class (Main): **A61F-005/14**

27/7,K/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014633268 **Image available**

WPI Acc No: 2002-453972/200248

Orthopedic shoe appliance includes wedge for placement beneath toe and having first upper surface separated from lower planar surface by angle of inclination between 1 and 60 degrees

Patent Assignee: CLOUGH J G (CLOU-I); RAY R G (RAYR-I)

Inventor: CLOUGH J G; RAY R G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020056209	A1	20020516	US 99467973	A	19991221	200248 B

US 2000693235 A 20001020

US 200132604 A 20011019

Priority Applications (No Type Date): US 200132604 A 20011019; US 99467973 A 19991221; US 2000693235 A 20001020

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020056209	A1		27	A61F-005/14	CIP of application US 99467973

CIP of application US 2000693235

Abstract (Basic): US 20020056209 A1

NOVELTY - The orthopedic shoe appliance comprises a **wedge** for placement beneath a toe, having a first upper surface (2) disposed between a first end and an apex (3), and a second upper surface (4) disposed between the apex and a second end. The first upper surface is separated from a lower planar surface by an **angle of inclination** between 1 and 60 degrees.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of improving stability of a foot during ambulation.

USE - For improving stability of foot during ambulation.

ADVANTAGE - Improves stability of foot during ambulation, thus alleviating pain in lesser metatarsal area of foot. Plantar fascia can be prestressed without limiting motion of metatarsal-phalangeal joint, alleviating pain caused by stress without dorsiflexion.

DESCRIPTION OF DRAWING(S) - The figure is a sagittal plane view of the bone structure of the foot illustrating the orthopedic shoe appliance.

First upper surface (2)

Apex (3)

Second upper surface (4)

pp; 27 DwgNo 16/37

Derwent Class: P22; P32

International Patent Class (Main): **A61F-005/14**

International Patent Class (Additional): A43B-007/14

27/7/3 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013981937 **Image available**

WPI Acc No: 2001-466151/200151

Orthopedic correction device for cyclists fits between shoe and pedal as rubberized or underside-roughened wedge shape to angle in-shoe foot round pedal axis

Patent Assignee: WALD A (WALD-I)

Inventor: WALD A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 10000416	A1	20010726	DE 1000416	A	20000107	200151 B

Priority Applications (No Type Date): DE 1000416 A 20000107

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 10000416	A1	10	A61F-005/14		

Abstract (Basic): DE 10000416 A1

NOVELTY - Device (3) between shoe (1) and pedal (2) enables riders foot to be **inclined** relative plane of pedal during cycling. Pedal lies parallel to direction of advance and with its longitudinal axis in plane of pedal so any **inclination** takes place **round** this same axis. In use pedal is at right **angles** to direction of advance so **inclination** occurs **round** transverse axis (5) lying in plane of pedal and normal to longitudinal axis.

DETAILED DESCRIPTION - The device fitted to or inside the shoe is latched in place preferably fitted to the shoe sole so as to lie between shoe and pedal. A **wedge** (7) forming part of the device imparts the required **inclination** and can be slip-proofly roughened on its underside.

USE - Orthopedic correction for cyclists.

ADVANTAGE - The slip-proof **wedge** is easily fitted to any type of shoe or footwear and personally adapted to correct incipient or envisaged distortive discomfort.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic front view of the fitted device.

shoe (1)
pedal (2)
device (3)
pedal plane (4)
transverse axis (5)
shoe sole (6)
wedge . (7)
pp; 10 DwgNo 1/6

Derwent Class: P22; P32; Q23

International Patent Class (Main): **A61F-005/14**

International Patent Class (Additional): A43B-005/14; A43C-015/09;
B62K-019/34

27/7,K/4 (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013595707 **Image available**

WPI Acc No: 2001-079914/200109

Orthopedic shoe appliances specifically adapted to provide improved stability of the foot structure

Patent Assignee: CLOUGH J G (CLOU-I)

Inventor: CLOUGH J G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6170176	B1	20010109	US 99467973	A	19991221	200109 B

Priority Applications (No Type Date): US 99467973 A 19991221

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6170176	B1		5	A61F-005/14	

Abstract (Basic): US 6170176 B1

NOVELTY - An orthopedic shoe appliance is provided having a pad with a **wedge** . The **wedge** is located on the pad in the area where the big toe would rest on the pad. The **wedge** provides a means to elevate the big toe up from the top planar surface of the pad. The relation between the pad and the **wedge** is defined by an **angle** . The **angle** is preferably in the range of from 20 to 30 degrees for normal ambulation. A method of providing for improved stability of the foot structure during ambulation comprising the steps of providing an orthopedic shoe appliance having a pad, said pad being provided with a **wedge** , said **wedge** being located on said pad in an area where a big toe would rest on said pad, said **wedge** providing a means to elevate said big toe up from a top planar surface of said pad during ambulation, and, said **wedge** providing an **angle** .

USE - Orthopedic shoe appliances specifically adapted to provide improved stability of the foot structure.

DESCRIPTION OF DRAWING(S) - Perspective view of the orthopedic shoe.

shoe appliance (10)
pad (12)
wedge (14)

top planar surface. (16)
pp; 5 DwgNo 1/3
Derwent Class: P32
International Patent Class (Main): **A61F-005/14**

27/7,K/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011938404 **Image available**
WPI Acc No: 1998-355314/199831

Insole for correcting wear caused to footwear during walking and exercising - has rear end wedge adhered to bottom surface of sole board rear end for adjusting angle of foot to ground
Patent Assignee: PARK I S (PARK-I); PARK I (PARK-I)
Inventor: PARK I; PARK I S
Number of Countries: 004 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10137280	A	19980526	JP 97240198	A	19970822	199831 B
KR 98035082	A	19980805	KR 9653313	A	19961111	199933
KR 173096	B1	19990115	KR 9653313	A	19961111	200038
US 6105283	A	20000822	US 97928222	A	19970912	200042
JP 3239334	B2	20011217	JP 97240198	A	19970822	200203
CN 1182559	A	19980527	CN 97118246	A	19970909	200242

Priority Applications (No Type Date): KR 9653313 A 19961111
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 10137280	A		7	A61F-005/14	
KR 98035082	A			A43B-007/38	
KR 173096	B1			A43B-007/38	
US 6105283	A			A43B-023/00	
JP 3239334	B2		7	A43B-013/38	Previous Publ. patent JP 10137280
CN 1182559	A			A43B-017/02	

Abstract (Basic): JP 10137280 A

The insole has a sole board (1) having a swelling (10) formed on top surface at three places corresponding to the curves of the back of the foot. The sole board extends to a length and width corresponding to the length and width of the back of the foot from toe to heel. The heel is formed with a pair of sole boards provided with a receptacle (11).

A front end **wedge** (15) provided with adjustment lines (17) is adhered to the front end of the sole board on the bottom surface for correcting the **angle** of the foot front end during walking. A rear end **wedge** is adhered to the insole board on the bottom surface at the rear end to adjust the foot **angle** to the ground.

ADVANTAGE - Adjusts **angle** of foot easily according to user's need.

Dwg.3/6

Derwent Class: P22; P32
International Patent Class (Main): A43B-007/38; A43B-013/38; A43B-017/02;
A43B-023/00; **A61F-005/14**
International Patent Class (Additional): A43B-007/14

27/7,K/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
011154405 **Image available**
WPI Acc No: 1997-132329/199712

Footwear sole for alleviating back pain - has smooth flat upper surface sloping downwardly from front to rear and upward peripheral wall which is higher at rear than front

Patent Assignee: OYANEDEL NEIRA J (NEIR-I)

Inventor: OYANEDEL NEIRA J

Number of Countries: 019 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9703628	A1	19970206	WO 96ES140	A	19960628	199712 B
EP 793950	A1	19970910	EP 96920839	A	19960628	199741
			WO 96ES140	A	19960628	

Priority Applications (No Type Date): ES 95U1977 U 19950718

Cited Patents: ES 1023614; ES 2002778; US 3964181

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 9703628	A1	S	14	A61F-005/14	
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Designated States (National): US

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

EP 793950	A1	E	5	A61F-005/14	Based on patent WO 9703628
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Designated States (Regional): CH DE DK FR GB IT LI PT SE

Abstract (Basic): WO 9703628 A

A footwear sole for alleviating back pain is pref. of flexible material, partic. polyurethane and has a difference in level between the front (2) and rear (3) of its upper surface and an upward peripheral wall which is higher at the rear than at the front. The sole upper surface is smooth, **slopes** continuously downwards from front to rear, and can carry an orthopaedic or other insole.

ADVANTAGE - Corrects pelvic and spinal posture to alleviate back and sciatic pain and separate the vertebrae to relieve pressure on the **discs**.

Dwg.2/2

Derwent Class: A83; P22; P32

International Patent Class (Main): **A61F-005/14**

International Patent Class (Additional): A43B-013/14

27/7,K/11 (Item 11 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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008676143 **Image available**

WPI Acc No: 1991-180163/199125

Orthopaedic corrective footwear sole - has one or two round sides and rear of heel to correct for position and relieve discomfort

Patent Assignee: MENOU P (MENO-I)

Inventor: ACKER D; MENOU P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2652260	A	19910329	FR 8912682	A	19890928	199125 B

Priority Applications (No Type Date): FR 8912682 A 19890928

Abstract (Basic): FR 2652260 A

The orthopaedic or corrective footwear sole incorporates padded ridges which run along one or both sides of the wearer's heel from rounded projections just in front of the heel. Where two ridges are employed, they can meet at the back of the heel to form a single continuous U-shaped element.

The height and **angle** of the ridge(s) vary, passing from a convex shape in front of the heel to a shallow concave section towards the rear. The position and shape of the ridge is determined by the required foot or postural correction of the wearer.

ADVANTAGE - Gives improved foot position to correct posture and relieve discomfort. (13pp Dwg.No.1/8

Derwent Class: P32

International Patent Class (Additional): **A61F-005/14**

27/7,K/12 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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007533734

WPI Acc No: 1988-167666/198824

Foot cushioning shoe insole - of foamed polymer and with transverse metatarsal wedge and heel cup

Patent Assignee: COHEN L S (COHE-I)

Inventor: COHEN L S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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US 4747410	A	19880531	US 8796239	A	19870903	198824 B
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Priority Applications (No Type Date): US 85801836 A 19851126; US 8796239 A 19870903

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 4747410	A		8		
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Abstract (Basic): US 4747410 A

Anti-pronation orthotic shoe insole, of resilient compressible foamed polymer, and formed with transverse metatarsal **wedge**, a medial shelf and a heel cup.

Pref. the latter has a **sloped** peripheral wall rising to about half an inch projection, and the insole includes soft hydrophobic fabric specifically of polypropylene yarn.

USE - Esp. athletes involved in running

Derwent Class: A83; P22; P32

International Patent Class (Additional): A43B-013/38; **A61F-005/14**

27/7,K/13 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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004290526

WPI Acc No: 1985-117404/198520

Insole with wedged shaped crosssection - is of silicone cpd. with gum like elasticity and contg. minute bubbles

Patent Assignee: NAKAMURA T (NAKA-I)

Inventor: NAKAMURA T

Number of Countries: 007 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
-----------	------	------	-------------	------	------	------

EP 140985	A	19850515	EP 83109926	A	19831005	198520 B
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GB 2151152	A	19850717	GB 8333368	A	19831214	198529
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GB 2151152	B	19870819				198733
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EP 140985	B	19880107				198802
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DE 3375062	G	19880211				198807
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Priority Applications (No Type Date): EP 83109926 A 19831005; GB 8333368 A

19831214

Cited Patents: 2.Jnl.Ref; A3...8524; DE 1694271; DE 2334837; DE 2926246; DE 3046756; EP 8034; FR 2427087; GB 798669; JP 56118712; No-SR.Pub; US 3271332

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 140985	A	E	23		
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Designated States (Regional): BE DE FR GB IT NL SE

EP 140985	B	E			
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Designated States (Regional): BE DE FR GB IT NL SE

Abstract (Basic): EP 140985 A

An insole is made of silicone compound with gum-like elasticity and including minute bubbles. The compound pref. comprises 5-75 parts inorganic filler and 5-30 parts hydrated silicate powder per 100 parts silicone rubber, and is skin-coloured.

The insole is pref. moulded, together with an integral band body for securing it to the sole, and is cut and/or ground after moulding. A number of small holes may be bored through the insole for air permeability. The insole may be provided with **inclinations** or irregularities in order to treat various conditions of the lower limbs.

0/7

Abstract (Equivalent): EP 140985 B

Insole moulded of a mixture of a silicone rubber and an inorganic filler material, characterised by a mixture which comprises 5-75 parts (by weight) of the inorganic filler, 5-30 parts (by weight) of a hydrous silicate powder and a vulcanising agent per 100 parts (by weight) of silicone rubber and by a permeable structure thereof. (8pp)

Abstract (Equivalent): GB 2151152 B

Synthetic resin extrusion apparatus, comprising a feed screw housing which is associated with a heater arrangement, and has a generally cylindrical passage provided at or adjacent one end with an inlet opening for the introduction of raw material and provided at or adjacent its other end with an outlet opening for the extrusion of material, a feed screw shaft rotatably mounted within the cylindrical passage to feed material along the cylindrical passage towards the outlet opening, the screw shaft including a kneading portion at a position along the length of the shaft whereat the feed screw thread of the shaft is recessed to form the thread into a plurality of circumferentially distributed teeth, thereby to form a toothed kneading member, the feed screw housing, at a position corresponding to the kneading member, including a movable block pivotably supported by a fixed block for movement between mutually closed and open positions, the blocks, when in their mutually closed position, defining therebetween the portion of the cylindrical passage containing the kneading member, and also defining a cylindrical chamber axially parallel to and intersecting said portion of the cylindrical passage, and a satellite kneading shaft rotatably supported or supportable in said cylindrical chamber, said satellite kneading shaft having teeth intermeshingly engageable with the teeth of the kneading member of the screw shaft, the satellite kneading shaft being manually insertable into and removable from the cylindrical chamber when the blocks are in their mutually open position.s

Derwent Class: A96; P22; P32

International Patent Class (Additional): A43B-007/28; **A61F-005/14** ;
B01F-007/00; B29C-047/42; B29F-003/02

27/7,K/14 (Item 14 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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003483122

WPI Acc No: 1982-31085E/198216

Orthopaedic insole with partially malleable arch support - packed with solid, particulate or cellular material which remains deformable

Patent Assignee: KONSUMEX K V (KONS-I); KONSUMEX KUELKERESKEDELMI VALL (KONS-N)

Number of Countries: 018 Number of Patents: 019

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
BE 891426	A	19820331				198216	B
DE 3147589	A	19830609				198324	
GB 2111821	A	19830713	GB 8136833	A	19811207	198328	
SE 8107194	A	19830704				198329	
AU 8178270	A	19830609				198330	
FR 2518399	A	19830624				198330	
NL 8105747	A	19830718				198332	
NO 8104334	A	19830711				198334	
FI 8103917	A	19830729				198336	
BR 8200113	A	19830913				198343	
DK 8105367	A	19831227				198407	
US 4431003	A	19840214	US 82338215	A	19820111	198409	
CA 1179126	A	19841211				198503	
RO 85213	A	19841030				198518	
GB 2111821	B	19850703				198527	
CH 655232	A	19860415				198621	
SU 1281157	A	19861230	SU 3368307	A	19811221	198732	
IT 1140364	B	19860924				198820	
AT 8105164	A	19880615				198827	

Priority Applications (No Type Date): BE 891426 A 19811210; GB 8136833 A 19811207

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

BE 891426 A 13

Abstract (Basic): BE 891426 A

An orthopaedic insole is constructed with two flexible superficial blisters to support the arch of the foot, where the smaller of the blisters is located within the larger blister and is filled with a matl. (I) which remains deformable. The support provided remains malleable to suit the shape and movement of the foot under different conditions, e.g. relaxed, running, standing, etc.

The leading edge of the blister is located at a distance (B) from the heel end of the insert corresponding to $\frac{2}{3}$ (+-5%) of the overall length (H) of the shoe cavity, and extends over a distance (c) of $\frac{4}{9}$ H (+-10%). The **smaller pocket is pref. circular and tangential with the leading edge of the larger pocket on an axis offset from that of the shoe by 5-15 deg.**

Pref. the solid filler (I) includes "AEROSTAT VII", (RTM). The sole base is of 1mm thick fibrous leather, e.g. "PERO"(RTM). Esp. for shoes, slippers etc. to support feet with flat, weak or fallen arches

Abstract (Equivalent): GB 2111821 B

A self-adjusting orthopaedic insole for use in a shoe or like footwear to raise the instep, the insole comprising a baseplate which conforms in shape and size to the sole of a shoe, a flexible supporting

element which partly comprises a first bladder filled with a yieldable material for providing a lifting action on the foot arch in a direction transverse to the length of the foot and which supporting element partly comprises a second bladder also filled with yieldable material, which second bladder is elongate in shape and provides arch support in the longitudinal direction of the foot, one corner of the second bladder having a rounded edge, which corner overlies the first bladder with the said rounded edge coinciding with part of the circumference of the first bladder, wherein: (a) the forwardmost end of the supporting element is located at a distance (B) that is $\frac{2}{3} H + \text{or} - 5\%$ (where H is the length of the base plate plus 2 mm) from the rear edge of the heel area of the base plate, (b) an imaginary straight line that passes through the centre of curvature of the rounded edge of the second bladder and that is tangential to the inner edge of the heel portion of the **base plate forms an angle (alpha) of 5 to 15 degrees** with a second imaginary straight line that is tangential to the convex outer edges of both the heel and toe portions of the baseplate, and (c) the length (C) of the supporting element is $\frac{4}{9} H + \text{or} - 10\%$, where H is as defined above.

Abstract (Equivalent): US 4431003 A

Self-adjusting medical instep raiser for footwear comprises a lower stiffening plate in the shape of a sole, and a closed arch support hose of scalene triangular shape fixed to the plate. The hose is canted at an **angle** of 5 to 15 degrees w.r.t. the plate axis, and is filled with a pliant material which changes shape in response to movement of the feet.

Valgus pronation can be secured. (4pp)s

Derwent Class: A83; P22; P32

International Patent Class (Additional): A43B-007/14; A43B-013/40;
A43B-017/14; **A61F-005/14**

27/7,K/15 (Item 15 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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003354818

WPI Acc No: 1982-L2841E/198234

Longitudinal platypodia corrector - with greater angle of slope in heel section than in front section

Patent Assignee: MITELMAN N YU (MITE-I)

Inventor: MITELMAN N Y U

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 874056	B	19811025				198234 B

Priority Applications (No Type Date): SU 2764010 A 19790507

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 874056	B		2		

Abstract (Basic): SU 874056 B

The insert for correcting longitudinal platypodia has a **wedge** shaped body (1). The varying **angle of slope** of the support surface near the medial edge, i.e. the greater **angle of slope** of the heel section and the lesser **angle of slope** where the insert supports the front part of the foot, helps to change the character of the influence of gravity on the foot by transforming deforming loads into loads which contribute to eliminating deformation at various moments of the

patient's gait.

The deformation of the foot is eliminated and optimal conditions are created for the functioning of the corrected plano-valgus foot because the support surface of the insert for correcting longitudinal platypodia is made in two parts with different **angles** of outwards **slope** and the **angle** of **slope** of the area of the insert supporting the front of the foot is less than the **angle** of **slope** of its heel section. Bul. 39/23.10.81. (2pp Dwg.No.1/1)

Derwent Class: P32

International Patent Class (Additional): **A61F-005/14**

27/7,K/16 (Item 16 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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003000811

WPI Acc No: 1981-A0810D/198101

Deformable orthotic foot wedge - has wedge deformed by person's weight to conform to foot contour and having plug inserts

Patent Assignee: BROWN D N (BROW-I)

Inventor: BROWN D N

Number of Countries: 003 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4237626	A	19801209				198101 B
SE 8002477	A	19811102				198147
DE 3020960	A	19811210				198151

Priority Applications (No Type Date): US 7914840 A 19790226

Abstract (Basic): US 4237626 A

A mouldable foot **wedge**, when suitably treated as by heat, becomes deformable so that the person for whom the **wedge** is to be customised fit is allowed to stand on the **wedge**. This deforms the **wedge** to conform identically to the contour of the person's foot, thus filling voids.

An area below the rear heel on one side is defined as a plug which is not subjected to the heat treatment. A beneficial cant of **inclination** can be provided to the **wedge** by not allowing this cold plug to be heat treated and thus deformed.

Derwent Class: P22; P32

International Patent Class (Additional): A43B-013/38; A43B-017/02;
A43D-000/00; **A61F-005/14**

27/7,K/17 (Item 17 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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001916774

WPI Acc No: 1978-E6025A/197824

Orthopaedic shoe heel rotating under pressure - has rotary sole and elastic skirt static and rotatable crown wheels with sawteeth

Patent Assignee: FOSSERAT J P (FOSS-I); THUILLARD Y (THUI-I)

Inventor: YVES T

Number of Countries: 004 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CH 599766	A	19780531				197824 B
DE 2818986	A	19781102				197845
FR 2388539	A	19781229				197905

PUBLISHED: September 08, 1998 (19980908)

INVENTOR(s): FUKUOKA YOSHIKO
APPLICANT(s): TODA MASAKO [000000] (An Individual), JP (Japan)
APPL. NO.: 09-054102 [JP 9754102]
FILED: February 21, 1997 (19970221)

ABSTRACT

PROBLEM TO BE SOLVED: To enable well-balanced walk.

SOLUTION: A shoe insole body 11 is formed to have at least a base end thin wall part in tight contact with a thenar B(sub 1) at the calcaneus, an intermediate thick wall part 16 extending over an area from a sharp **inclined** part 14 formed along the curvature of a thenar B(sub 2) at the front of the calcaneus to a gradually **inclined** part 15 formed along the curvature of a thenar B(sub 4) at the base end of the os metatarsale, and a front end thin wall part 17 in tight contact with thenars B(sub 6), to B(sub 7) over an area from the intermediate part of the os metatarsale to the base end of the coxal bone. In addition, the center of the intermediate thick wall part 16 of the shoe insole body 11 in an area extending from the front end of the **wedge** bone to the approximate center of the os metatarsale is formed to have a bulged part 18 of approximately elliptical shape positioned back and forth along a lengthwise direction. Also, the the bottom surface of the shoe insole body 11 where a thenar B(sub 5) of the inner **wedge** bone is positioned, is curved with the inner end having the highest degree of curvature along an upward direction and the curved part gradually made low toward the center, thereby enabling the thenar B to be kept in tight contact with the insole of a shoe.

INTL CLASS: A43B-017/00; **A61F-005/14**

File 348:EUROPEAN PATENTS 1978-2003/Sep W03

File 349:PCT FULLTEXT 1979-2002/UB=20030918,UT=20030911

Set	Items	Description
S1	317083	CIRCULAR OR CIRCLE OR ROUND
S2	236139	DISC OR DISCS OR DISK? ? OR WEDGE OR WEDGES
S3	518819	SLANT??? OR ANGLE? ? OR INCLIN? OR TILT??? OR SLOPE? ? OR - SLOPING OR GRADIENT OR OBLIQUE
S4	126836	PITCH?? OR SLOPE?? OR SLOPING
S5	96	IC=A61F-005/14
S6	59	IC=A43B-007/22
S7	75	S1()S2(5N)S3:S4
S8	1	S5:S6 AND S7 [a duplicate]
S9	1057	S1(2N)S2(S)S3:S4
S10	1	S9 AND S5:S6
S11	0	S10 NOT S8
S12	15	S2(S)S3:S4 AND S5:S6
S13	14	S12 NOT S10

13/3,K/1 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01121282

Combined pronation and supination control plantar insert for shoes

Kombinierte Plattfuss- und Hohlfuss-Schuheinlage

Semelle plantaire pour chaussures, combine pour pied cambre et pied plat

PATENT ASSIGNEE:

Silvestrini Bruno, (2797880), Via Michelangelo Schipa, 15, 00179 Roma,
(IT), (Applicant designated States: all)

Buratto Camillo, (2797890), Via Leonardo Da Vinci, 9, 31044 Montebelluna
(Treviso), (IT), (Applicant designated States: all)

Buratto Alberto, (2797900), Corsa Mazzini, 50, 31044 Montebelluna
(Treviso), (IT), (Applicant designated States: all)

INVENTOR:

Silvestrini Bruno, Via Michelangelo Schipa, 15, 00179 Roma, (IT)

Buratto Camillo, Via Leonardo Da Vinci, 9, 31044 Montebelluna (Treviso),
(IT)

Buratto Alberto, Corsa Mazzini, 50, 31044 Montebelluna (Treviso), (IT)

LEGAL REPRESENTATIVE:

Modiano, Guido, Dr.-Ing. et al (40782), Modiano & Associati SpA Via
Meravigli, 16, 20123 Milano, (IT)

PATENT (CC, No, Kind, Date): EP 980654 A2 000223 (Basic)

EP 980654 A3 000301

APPLICATION (CC, No, Date): EP 99113522 990705;

PRIORITY (CC, No, Date): IT 98TV101 980707

DESIGNATED STATES: DE; ES; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: A43B-007/22 ; A61F-005/14

ABSTRACT WORD COUNT: 69

NOTE: Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	200008	993
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SPEC A	(English)	200008	1882
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Total word count - document A	2875
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Total word count - document B	0
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Total word count - documents A + B 2875

...SPECIFICATION and lockable at various manners and locations, may be used.

Moreover, as an alternative, the **wedge** system may instead use a different system which allows the foot resting surface to **tilt**, and therefore be adjusted, in the various spatial planes by way of a spherical articulation...

13/3,K/2 (Item 2 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00899549

Improvements in or relating to orthotic devices

Verbesserungen bezüglich orthotischer Vorrichtungen

Ameliorations relatives aux dispositifs orthotiques

PATENT ASSIGNEE:

PARAMOUNT CAPITAL EXCHANGE CORPORATION LTD., (2144670), Suite 743, 48
Par-la-Ville Road, Hamilton, HM11, (BM), (applicant designated states:
AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

Vasyli, Philip John, P.O. Box N7777, Nassau, N.P., (BS)

LEGAL REPRESENTATIVE:

Findlay, Alice Rosemary (69451), Lloyd Wise, Tregear & Co., Commonwealth
House, 1-19 New Oxford Street, London WC1A 1LW, (GB)

PATENT (CC, No, Kind, Date): EP 820706 A2 980128 (Basic)

EP 820706 A3 990609

APPLICATION (CC, No, Date): EP 97202791 901109;

PRIORITY (CC, No, Date): AU 89PJ7446 891117

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 500632 (EP 909164360)

INTERNATIONAL PATENT CLASS: A43B-007/28; **A43B-007/22** ; **A61F-005/14**

ABSTRACT WORD COUNT: 88

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	9805	475
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SPEC A	(English)	9805	2273
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Total word count - document A	2748
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Total word count - document B	0
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Total word count - documents A + B	2748
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...SPECIFICATION foot malformations, mouldable adjuncts may include

2(degree), 4(degree), 6(degree), or 8(degree) **angle** adhesive **wedges** ;

4 or 8 mm heel adhesive "raises" and fabric covers for the mouldable
orthotic devices...

13/3,K/4 (Item 4 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00634324

Supination control sole and shoe

Schuh und Sohle fur Korrektur des Abknickens

Chaussure et semelle de controle de la supination

PATENT ASSIGNEE:

MARATHON SHOE COMPANY, (1763600), 174 Currie Hall Parkway, Kent, Ohio
44240, (US), (applicant designated states:

AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE)
INVENTOR:
Pryce, Michael L., 6534, Sherborne Lane, Hudson 44236 Ohio, (US)
LEGAL REPRESENTATIVE:
Baillie, Iain Cameron (27951), c/o Ladas & Parry Altheimer Eck 2, 80331
Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 615704 A1 940921 (Basic)
EP 615704 B1 970611
APPLICATION (CC, No, Date): EP 94103815 940311;
PRIORITY (CC, No, Date): US 32878 930318
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
NL; PT; SE
INTERNATIONAL PATENT CLASS: A43B-007/22 ; A43B-017/02
ABSTRACT WORD COUNT: 150
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language Update Word Count
CLAIMS A (English) EPABF2 179
SPEC A (English) EPABF2 1456
Total word count - document A 1635
Total word count - document B 0
Total word count - documents A + B 1635
...SPECIFICATION 882, Talarico, entitled "Forefoot Compensated Footwear",
issued April 1, 1986. This patent shows an angulated **wedge** -shaped sole
sloping upward from the lateral aspect of the forefoot to the medial
aspect, reducing excessive pronation...
...in supination, then the foot still tries to evert in the midfoot.
Talarico starts his **wedge** at the base of the fifth metatarsal and
angles towards the first metatarsal in a distal fashion. This leaves the
midfoot entirely unsupported. In...
...to the surface. If, as in Talarico's model, the forefoot is compensated
by a **wedge** , and the midfoot is not supported, then there will occur a
paradoxical motion in which the forefoot is held inverted by the **wedge** ,
and the midfoot is allowed to evert. This is exactly what causes the...

13/3,K/5 (Item 5 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.
00531369

Adjustable orthotic
Orthotische einstellbare Einlage
Insert orthotetique ajustable

PATENT ASSIGNEE:
Smith, Leland R., (1581870), 363 Dolphin Isle, Foster City, California
94404, (US), (applicant designated states:
AT; CH; DE; DK; ES; FR; GB; IT; LI; NL; SE)
INVENTOR:
Smith, Leland R., 363 Dolphin Isle, Foster City, California 94404, (US)
LEGAL REPRESENTATIVE:
Patentanwalte Ruff, Beier, Schondorf und Mutschele (100161),
Willy-Brandt-Strasse 28, 70173 Stuttgart, (DE)
PATENT (CC, No, Kind, Date): EP 550842 A1 930714 (Basic)
EP 550842 B1 961023
APPLICATION (CC, No, Date): EP 92121017 921209;
PRIORITY (CC, No, Date): US 804423 911210
DESIGNATED STATES: AT; CH; DE; DK; ES; FR; GB; IT; LI; NL; SE

INTERNATIONAL PATENT CLASS: **A61F-005/14**

ABSTRACT WORD COUNT: 57

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS B	(English)	EPAB96	562
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CLAIMS B	(German)	EPAB96	491
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CLAIMS B	(French)	EPAB96	658
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SPEC B	(English)	EPAB96	3407
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Total word count - document A	0
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Total word count - document B	5118
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Total word count - documents A + B	5118
------------------------------------	------

...SPECIFICATION attached during the flexing of the orthotic which occurs with such activities.

By replacing one **wedge** with others having different correction factors, such as different **wedge angles**, an adjustable orthotic is provided which can be specially fitted to the patient. As a...

...for the right foot, includes a footsole portion 30 together with the pair of correcting **wedges** 24 and 26. The **wedges** 24 and 26 can be seen (Figure 2b) to change the **angle**0 of the bottom of the footsole portion 30 relative to the ground, thus bringing the...

...to meet the soles of the patient's foot. It will be appreciated that the **wedges** 24 and 26 can be formed at any **angle**, depending on the patient's needs. Likewise, it will be appreciated by those skilled in the art that the orientation of the **wedges** 24 or 26 can change depending upon whether valgus or varus correction is required. In at least some instances it may be desirable to provide an indicia for readily differentiating **wedges** of different **angles**, such as by making **wedges** of different correction factor in different colors.

Referring particularly to Figures 2c and 3, a...

13/3,K/8 (Item 1 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00947050 **Image available**

JOINT PROTECTIVE SHOE CONSTRUCTION

FABRICATION DE CHAUSSURE DE PROTECTION D'ARTICULATIONS

Patent Applicant/Inventor:

KERRIGAN D Casey, 525 Rockwood Place, Charlottesville, VA 22903, US, US
(Residence), US (Nationality)

Legal Representative:

MURPHY Timothy M (et al) (agent), Bromberg & Sunstein LLP, 125 Summer
Street, Boston, MA 02110-1618, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200280718 A1 20021017 (WO 0280718)

Application: WO 2002US9766 20020329 (PCT/WO US0209766)

Priority Application: US 2001825260 20010403

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English
Fulltext Word Count: 6221
Main International Patent Class: **A43B-007/22**
Fulltext Availability: Detailed Description
Detailed Description

... of the body is greater than the height of the medial side, thereby, forming a **wedge** -shaped profile. In one embodiment, the lateral **inclination** of the midsole is limited to the heel and forefoot portions. Accordingly, the medial and...has a medial height that is greater than the lateral height. The medial and lateral **inclinations** of the top and bottom layers of the midsoles can be limited to the heel...
...body. Due to the different compression properties of the two layers, the midsole achieves a **wedge** -shaped profile at the heel and forefoot portions upon the ...FIG. 3 illustrates a perspective view of the midsole of FIG. 2 having a lateral **wedge** according to one embodiment of the present invention;
FIG. 4 illustrates a perspective view of the midsole of FIG. 2 having a top layer with a medial **incline** and a bottom layer with a lateral **incline** . according to another embodiment of the present invention;
FIG. 5 illustrates a perspective view of...the arch portion 56 (Figure 2).
The body 48 of the midsole 34 has a **wedge** -shaped profile (sometimes referred to as the "lateral **wedge** ") in which the lateral side 20 of the body 48 has a height h ...1 5 between the medial 22 and lateral 20 sides of the midsole defines an **incline** or lateral **wedge** , which can extend along the length of the midsole 34, or can vary along different...may be variations in the surfaces of the midsoles as long as an average lateral **wedge** shape is maintained with an **inclination** of about 2' to 12' degrees laterall y, more preferably about 4' to 5', and slight indentations to accommodate the heel, forefoot, or toes', with an overall average **inclination** of the sole from about 2' to 12' degrees laterally, more preferably about 4' to...

13/3,K/9 (Item 2 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00875879 **Image available**

SHOE SOLE ORTHOTIC STRUCTURE

STRUCTURES D'ORTHESE POUR SEMELLES DE CHAUSSURE ET COMPARTIMENTS COMMANDES PAR ORDINATEUR

Patent Applicant/Inventor:

ELLIS Frampton E III, Suite 2B, 2895 South Abingdon Street, Arlington, VA
22206-1331, US, US (Residence), US (Nationality)

Legal Representative:

DUNLEAVY Kevin J (agent), Knoble & Yoshida, LLC, Suite 1350, Eight Penn
Center, 1628 John F. Kennedy Blvd., Philadelphia, PA 19103, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200209547 A2-A3 20020207 (WO 0209547)

Application: WO 2001US23865 20010730 (PCT/WO US0123865)

Priority Application: US 2000221542 20000728; US 2000225195 20000814; US
2000237034 20001002

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 42756

...International Patent Class: **A61F-005/14**

Fulltext Availability: Detailed Description

Detailed Description

... hatched area of decreased area of footprint due to pronation

1 7 footprint outline when **tilted**

1 8 inner footprint outline of low-arched foot

hatched area of increased area of...foot outline

37a maximum supination. position

37b maximum pronation position

3 8 heel lift or **wedge**

combined midsole and bottom sole

forefoot lift or **wedge**

ground

density edge

theoretically ideal stability plane

51, half of the theoretically ideal stability plane...

13/3,K/11 (Item 4 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00567110 **Image available**

IMPROVEMENTS IN FOOTWEAR

AMELIORATIONS APPORTEES A UNE CHAUSSURE

Patent Applicant/Assignee:

TURNER Amanda,

COLLINS William,

Inventor(s):

TURNER Amanda,

COLLINS William,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200030483 A1 20000602 (WO 0030483)

Application: WO 99GB3876 19991122 (PCT/WO GB9903876)

Priority Application: GB 9825331 19981120; GB 9916032 19990709

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU

LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA

UG US UZ VN YU ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU

TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG

CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 2689

...International Patent Class: **A43B-007/22 ...**

... A61F-005/14

Fulltext Availability: Detailed Description

Detailed Description

... the foot in the boot during forefoot compensation. The lateral support means 13 comprises a **wedge** formation which is 5-7mm angled from the plane of the sole of the boot. The medial support means 14 comprises a **wedge** formation which is 3-5mm angled from the plane of the sole of the boot. A transverse

cross-section of the lateral (b) and medial (a) forefoot **wedges** is depicted in Figure 8. The arch support (c) graduates into the sole as shown...
...is 8-10mm at the heel section, graduating through the midfoot to the respective forefoot **wedges**. The heel raise (e and f) is shown in Figure 10 as a cross-section...

13/3,K/12 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00511875 **Image available**

FOOT SUPPORT SYSTEM AND USE IN SHOE LASTS

SYSTEME DE SUPPORT POUR PIED ET SON UTILISATION DANS LES FORMES A CHAUSSURE

Patent Applicant/Assignee:

GRD BIOTECH INC,
ROTHBART Brian A,

Inventor(s):

ROTHBART Brian A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9943227 A1 19990902

Application: WO 98US16934 19980814 (PCT/WO US9816934)

Priority Application: US 9831258 19980226

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD

MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US

UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE

CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN

GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 7040

...International Patent Class: **A61F-005/14**

Fulltext Availability: Detailed Description

Detailed Description

... the inner edge 62 to the outer edge 64 such that the upper surface 70 **slopes** downwardly from the inner edge 62 to meet the lower surface 72 at the outer edge 64. Preferably, the upper surface 70 **slopes** downward linearly, such that the foot support system 60 is **wedge**-shaped. However, it will be appreciated that the upper surface 70 can also **slope** downward in a concave, convex or stepped fashion. Furthermore, although the upper surface 70 preferably **slopes** downward to meet the lower surface 72 at the outer edge 64 ...has no vertical component, it will be appreciated that the upper surface 70 can also **slope** downward to the outer edge 64 without meeting the lower surface 72 such that the...height of the foot support system 60 is uniform along the inner edge 62, the **slope** of the upper surface 70 varies depending upon the width of the lower surface 72 of the particular cross-section. In particular, in the **wedge**-shaped cross-section taken from the widest portion of the foot support system, shown in FIGURE 7B, the **slope** of the upper surface 70 decreases more gradually than the **slope** in the cross-section taken from the narrowest portion of the foot support system as...

13/3,K/13 (Item 6 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00221950 **Image available**

ORTHOTIC DEVICE

ORTHESE

Patent Applicant/Assignee:

WINPAL PTY LTD,
VASYLI Phillip John,

Inventor(s):

VASYLI Phillip John,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9219191 A1 19921112
Application: WO 91AU185 19910430 (PCT/WO AU9100185)
Priority Application: WO 91AU185 19910430

Designated States: AT AU BE CA CH DE DK ES FR GB GR IT JP LU NL SE US

Publication Language: English

Fulltext Word Count: 2475

Main International Patent Class: **A61F-005/14**

Fulltext Availability: Detailed Description

English Abstract

...or shoe in which it is to be worn, has a **4degrees rear foot varus angle or wedge with an integrally-formed heel cup** (3), a longitudinally-extending arch "raise" (4), a metatarsal...

Detailed Description

... V.A. material used; greater and more accurate rearfoot control from the 40 rearfoot varus **angle or wedge**, which helps to prevent over pronation during function, along with the solid high. molded heel...

13/3,K/14 (Item 7 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00189806 **Image available**

IMPROVEMENTS IN OR RELATING TO ORTHOTIC DEVICES

AMELIORATIONS RELATIVES AUX DISPOSITIFS ORTHOTIQUES

Patent Applicant/Assignee:

WINPAL PTY LTD,
VASYLI Phillip John,

Inventor(s):

VASYLI Phillip John,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9107152 A1 19910530
Application: WO 90AU543 19901109 (PCT/WO AU9000543)
Priority Application: AU 897446 19891117

Designated States: AT AU BE CA CH DE DK ES FR GB GR IT JP LU NL SE US

Publication Language: English

Fulltext Word Count: 2908

Main International Patent Class: **A61F-005/14**

Fulltext Availability: Detailed Description

Detailed Description

... For certain foot malformations, moldable adjuncts may include 20 , 4' , 6' , or 80 **angle adhesive wedges ; 4 or 8 mm heel adhesive "raises"** and fabric covers for the inventive moldable orthotic...

File 348:EUROPEAN PATENTS 1978-2003/Sep W03

File 349:PCT FULLTEXT 1979-2002/UB=20030925,UT=20030918

Set Items Description

S1 12 (ROUND OR CIRCULAR) () (WEDGE OR WEDGES) (S) DEGREE? ?

1/3,K/2 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

00879071

Removable roll-feed apparatus and method

Entfernbares Zufuhrgerat mit Rollen und Verfahren

Appareil d'alimentation amovible a rouleaux et methode

PATENT ASSIGNEE:

Hewlett-Packard Company, A Delaware Corporation, (3016020), 3000 Hanover
Street, Palo Alto, CA 94304, (US), (Proprietor designated states: all)

INVENTOR:

Lewis, Richard, Av. Graells 501, 08190 Sant Cugat del Valles, (Barcelona)
, (ES)

Meyer, Richard, RR1, Box 215g, Gore Road, Alfred, ME 04002, (US)

Palmatier, Jennifer P., P.O. Box 322, Milton Mills, NH 03852, (US)

Hinoiosa, Antonio, Av. Graells 501, 08190 Sant Cugat del Valles,
(Barcelona), (ES)

Kisicki, Cheryl, Moore,300 Lang Blvd, Grand Island, NY 14072, (US)

Brugue, Joaquim, Av. Graells 501, 08190 Sant Cugat del Valles,
(Barcelona), (ES)

Regue, Xavier, Av. Graells 501, 08190 Sant Cugat del Valles, (Barcelona),
(ES)

LEGAL REPRESENTATIVE:

Liesegang, Roland, Dr.-Ing. et al (7741), FORRESTER & BOEHMERT

Pettenkoferstrasse 20-22, 80336 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 805043 A2 971105 (Basic)

EP 805043 A3 990317

EP 805043 B1 020821

APPLICATION (CC, No, Date): EP 97107024 970428;

PRIORITY (CC, No, Date): US 658346 960429

DESIGNATED STATES: DE; ES; GB

INTERNATIONAL PATENT CLASS: B41J-015/04; B41J-013/10; B41J-011/48;
B41J-011/70

ABSTRACT WORD COUNT: 130

NOTE: Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
----------------	----------	--------	------------

CLAIMS A	(English)	199710W5	664
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CLAIMS B	(English)	200234	736
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CLAIMS B	(German)	200234	725
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CLAIMS B	(French)	200234	945
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SPEC A	(English)	199710W5	7410
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SPEC B	(English)	200234	7300
--------	-----------	--------	------

Total word count - document A	8075
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Total word count - document B	9706
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Total word count - documents A + B	17781
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..SPECIFICATION 45(degree) angle from the plane of the front surface. The
back surface includes a **circular wedge** or ramp 488 which extends at
approximately 10(**degree**) from the plane formed by the rear surface. The
edge of the blade, between the...

...SPECIFICATION the disk is a beveled edge 486. This beveled edge is formed at a 45(**degree**) angle from the plane of the front surface. The back surface includes a **circular wedge** or ramp 488 which extends at approximately 10(**degree**) from the plane formed by the rear surface. The edge of the blade, between the...

1/3,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00442651

Broaching assembly.

Raumgerat.

Equipement de brochage.

PATENT ASSIGNEE:

SECO TOOLS AB, (267161), , S-773 01 Fagersta, (SE), (applicant
designated states: DE;FR;GB;IT;SE)

INVENTOR:

Kelm, Walter H., 23701 Neil Street, Mt. Clemens MI 48043, (US)

LEGAL REPRESENTATIVE:

Eriksson, Kjell et al (22751), Sandvik AB Patent Department, S-811 81
Sandviken, (SE)

PATENT (CC, No, Kind, Date): EP 412950 A2 910213 (Basic)
EP 412950 A3 910424
EP 412950 B1 940420

APPLICATION (CC, No, Date): EP 90850266 900709;

PRIORITY (CC, No, Date): US 392260 890810

DESIGNATED STATES: DE; FR; GB; IT; SE

INTERNATIONAL PATENT CLASS: B23D-043/04;

ABSTRACT WORD COUNT: 54

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	660
CLAIMS B	(German)	EPBBF1	658
CLAIMS B	(French)	EPBBF1	818
SPEC B	(English)	EPBBF1	2792

Total word count - document A 0

Total word count - document B 4928

Total word count - documents A + B 4928

...CLAIMS spaced-apart cutting insert engaging faces (36a,36b) insertable into said semicircular slot (33), said **wedge** means (32) adapted to pivot about its axis within the circular slot (33); and means...

...36b) of the **wedge** means (32) have an angle of taper of up to 10(**degree**).

3. A broach assembly according to claim 1, characterized in that the cutting insert engaging...

...36b) of the **wedge** means (32) have an angle of taper of up to 7(**degree**).

4. A broach assembly according to claim 1, characterized in that the holder (4) further...

1/3,K/9 (Item 9 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

00308548

Improvements to telecine equipment.

Fernsehfilmleinrichtung.

Equipement de telecinema.

PATENT ASSIGNEE:

RANK CINTEL LIMITED, (702110), Watton Road, Ware Hertfordshire SG12 OAE,
(GB), (applicant designated states: DE;FR;NL)

INVENTOR:

Mumford, Ronald Walter John, 85 Grovelands Avenue, Hitchin Hertfordshire,
(GB)

LEGAL REPRESENTATIVE:

Harland, Linda Jane et al (52721), c/o Reddie & Grose 16 Theobalds Road,
London WC1X 8PL, (GB)

PATENT (CC, No, Kind, Date): EP 281229 A2 880907 (Basic)
EP 281229 A3 900328
EP 281229 B1 940615

APPLICATION (CC, No, Date): EP 88300494 880121;

PRIORITY (CC, No, Date): GB 8705336 870306

DESIGNATED STATES: DE; FR; NL

INTERNATIONAL PATENT CLASS: H04N-003/36; H04N-005/257;

ABSTRACT WORD COUNT: 210

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPBBF1	636
CLAIMS B	(English)	EPBBF1	540
CLAIMS B	(German)	EPBBF1	449
CLAIMS B	(French)	EPBBF1	596
SPEC A	(English)	EPBBF1	2281
SPEC B	(English)	EPBBF1	2526

Total word count - document A 2917

Total word count - document B 4111

Total word count - documents A + B 7028

...SPECIFICATION means 48 which might be used in place of the plate 50
would be a **circular wedge** prism. Such a prism would simply be rotated
a few **degrees** at a time to provide the desired offset.

Although the noise reduction method utilising different...

1/3,K/11 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00483206 **Image available**

CONSOLIDATED LASER ALIGNMENT AND TEST STATION

DISPOSITIF CONSOLIDE DE TEST ET DE CENTRAGE D'EMETTEURS-RECEPTEURS LASER

Patent Applicant/Assignee:

LOCKHEED-MARTIN CORPORATION,

Inventor(s):

LIPSCOMB Derrell,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9914558 A1 19990325

Application: WO 98US17990 19980902 (PCT/WO US9817990)

Priority Application: US 97931289 19970916

Designated States: IL KR TR AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL
PT SE

Publication Language: English

Fulltext Word Count: 10400

Fulltext Availability: Detailed Description

Detailed Description

... the two pieces can be configured with six corresponding pieces cut
from 0 three additional **circular wedge** filters to provide a superior

quad step-filter...

1/3,K/12 (Item 3 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00454530 **Image available**

GOLF PUTTING DEVICE AND METHOD

DISPOSITIF ET PROCEDE DE PUTTING

Patent Applicant/Assignee:

NBG TECHNOLOGIES INC,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9844994 A2 19981015

Application: WO 98US7375 19980409 (PCT/WO US9807375)

Priority Application: US 97831587 19970409

Designated States: CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT
SE

Publication Language: English

Fulltext Word Count: 3520

Fulltext Availability: Detailed Description

Detailed Description

... portion of its club head body, The reflective surface is angled at approximately forty-five **degrees** with respect to both the horizontal and vertical axes. A sighting mark is disposed in...

...In this position, the shaft of the golf club extends at an approximate forty five **degree** angle with respect ,to both the horizontal and vertical axes. The golfer positions his or...

...golf ball. In this position, the reflective surface is now disposed at approximately forty-five **degrees** with respect to both the horizontal and vertical axes, The reflective surface will now project...

...the ball squarely at the hole. The reflective surface is shaped as a semi 35 **circular wedge** , allowing a wide field of view in which to sight and align the putter with...18 has no functional purpose.

The reflective surface 18 is shaped substantially as a semi- **circular wedge** , In the ball-addressing position (putting position) illustrated in FIGURES 1 and 3, the reflective surface 18 is disposed at approximately forty five **degrees** to the horizontal X - X axis, and to the vertical Y - Y axis, as shown...

...It will also be observed that the shaft 11 is angled at approximately forty-five **degrees** with both the vertical and horizontal axes, FIGURE 2 represents a first alignment position for...the golfer with the reflective surface 18 disposed at an approximate angle of forty-five **degrees** both to horizontal (X - X) and to vertical (Y - Y) axes, As the golfer peers...

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200361

Set Items Description

S1 2 (ROUND OR CIRCULAR) () (WEDGE OR WEDGES) (S) DEGREE? ?

1/7,K/1

DIALOG(R)File 350:Derwent WPIX

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012437958 **Image available**

WPI Acc No: 1999-244066/199920

Spiral vacuum pump with reliable transfer chamber seal

Patent Assignee: ATELIERS BUSCH SA (BUSC-N); GIGON R (GIGO-I)

Inventor: GIGON R

Number of Countries: 079 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9914502	A1	19990325	WO 97CH343	A	19970916	199920 B
AU 9741095	A	19990405	AU 9741095	A	19970916	199933
			WO 97CH343	A	19970916	
EP 1023538	A1	20000802	EP 97938731	A	19970916	200038
			WO 97CH343	A	19970916	
AU 731955	B	20010405	AU 9741095	A	19970916	200125
			WO 97CH343	A	19970916	
US 6290477	B1	20010918	WO 97CH343	A	19970916	200157
			US 2000508244	A	20000309	
KR 2001023800	A	20010326	WO 97CH343	A	19970916	200161
			KR 2000702459	A	20000309	
JP 2001516848	W	20011002	WO 97CH343	A	19970916	200172
			JP 2000512010	A	19970916	

Priority Applications (No Type Date): WO 97CH343 A 19970916

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9914502 A1 F 30 F04C-018/02

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU
CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU
LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA
UG US UZ VN YU ZW

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GR IE IT
KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 9741095 A Based on patent WO 9914502

EP 1023538 A1 F F04C-018/02 Based on patent WO 9914502

Designated States (Regional): AT BE CH DE DK ES FR GB IE IT LI NL SE

AU 731955 B F04C-018/02 Previous Publ. patent AU 9741095

Based on patent WO 9914502

US 6290477 B1 F04C-021/00 Based on patent WO 9914502

KR 2001023800 A F04C-018/02

JP 2001516848 W 27 F04C-018/02 Based on patent WO 9914502

Abstract (Basic): WO 9914502 A1

NOVELTY - The pump (1), comprising a fixed section (2) with two half shells (20, 21) and a mobile section (3) with a disc (30) having rotary spiral partitions (27, 28, 33, 34) on each side. The starts of the spirals (27, 33) on one side of the disc are offset by 180 degrees to the starts of the spirals (28, 34) on the other side. The pump also has at least one **circular wedge** (29) to ensure a set spacing between its fixed and mobile sections.

USE - Suitable for use in laboratories or in chemical or food industries, with no risk of lubricant making contact with pumped gas or

air.

ADVANTAGE - Reliable transfer chamber seal.

DESCRIPTION OF DRAWING(S) - The drawing shows a lengthwise section of the pump.

Pump (1)

Fixed section (2)

Moving section (3)

Half-shells (20, 21)

Spiral partitions (27, 28, 33, 34)

Circular wedge (29)

pp; 30 DwgNo 1/4

Derwent Class: Q56

International Patent Class (Main): F04C-018/02; F04C-021/00

1/7,K/2

DIALOG(R) File 350:Derwent WPIX

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001366612

WPI Acc No: 1975-16246W/197510

Cyclone dust separator with improved energy efficiency - having diffuser in gas outlet to recover kinetic energy

Patent Assignee: SIEMENS AG (SIEI)

Number of Countries: 008 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 2341789	A	19750227				197510 B
NL 7409670	A	19750219				197510
DK 7404299	A	19750421				197521
FR 2240771	A	19750418				197522
CH 576802	A	19760630				197629
US 3972698	A	19760803				197633
IT 1019957	B	19771130				197811
AT 7405698	A	19780315				197813
DE 2341789	B	19790613				197925

Priority Applications (No Type Date): DE 2341789 A 19730817

Abstract (Basic): DE 2341789 A

Cyclone separator has greatly reduced effective pressure loss due to diffuser to recover kinetic energy in the gas outlet. Dirty gas enters the cyclone chamber via a turbine which forms a vortex in the chamber and causes particles to collect near the walls. Auxiliary air jets aid this sepn. and the dust falls into a hopper. The gas outlet is of conical shape and leads into an annular space from which the air leaves. Around the edges of the cone is a circular plate of smaller dia. than the outer wall of the annulus. The outlet is at about the same ht. as this plate. Into the conical outlet, a **circular wedge** shaped diverter projects. **The angle of the wedge is smaller than the angle of the conical outlet, the difference being ≤ 10 degrees**. The axis of the outlet branch is below that of plate and comes tangentially off annulus. The conical outlet can have a progressively increasing angle of divergence. The main sepn. energy of a cyclone is provided by the vortex. This vortex is reconverted to pressure head and therefore the effective pressure drop to drive the cyclone successfully is significantly reduced. Used for separating fine particles from a gas stream.

Derwent Class: J01; P41

International Patent Class (Additional): B01D-045/16; B01D-050/00;

ASRC Searcher: Jeanne Horrigan
Serial 09/603222
September 26, 2003

44

B04C-003/06; B04C-009/00

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200361

File 347:JAPIO Oct 1976-2003/May(Updated 030902)

File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	115	(CIRCULAR OR ROUND) () (WEDGE OR WEDGES)
S2	1082368	SLANT??? OR ANGLE? ? OR INCLIN?
S3	412547	TILT??? OR SLOPE? ? OR SLOPING OR GRADIENT? OR PITCH???
S4	21	S1 AND S2
S5	6	S1 AND S3
S6	25	S4:S5

6/3,K/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014756090 **Image available**

WPI Acc No: 2002-576794/200262

XRPX Acc No: N02-457318

Helicoidal roller milling tool comprises roller body with spiral grooves running spaced apart over its length, in which helicoidal blades are arranged held by wedges tightened by screws

Patent Assignee: INGERSOLL WERKZEUGE GMBH (INGE-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 20204478	U1	20020711	DE 2002U2004478	U	20020321	200262 B

Priority Applications (No Type Date): DE 2002U2004478 U 20020321

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 20204478	U1	10	B23C-005/04		

Abstract (Basic):

... tightened by screws. The wedges (7) are provided individually, directly spaced apart, and in an **inclination** position directed against the helicoidal blade (4) of a spiral groove (3) in recesses machined...

... For blade tension, **round wedges** (6) are inserted. These wedges are formed with at least one flat wedge section (8...

... **round wedges** (6

6/3,K/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

013226645 **Image available**

WPI Acc No: 2000-398519/200034

XRPX Acc No: N00-298425

High-pressure vessel gate valve

Patent Assignee: LENGD METAL WKS STOCK CO (LEMD)

Inventor: DUNAEV L L; RASSKAZOV V I

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
RU 2135863	C1	19990827	RU 97103557	A	19970305	200034 B

Priority Applications (No Type Date): RU 97103557 A 19970305

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
RU 2135863	C1			F16J-013/12	

Abstract (Basic):

... **Circular wedge**-type gasket forms wedge conjugation with circular projection of flange entering the neck; its thinned...
...formed between bandage ring and neck; this conjugation is similar to first one by wedge **angle**. Clearances sufficient for deformation-free temperature motion of parts of wedge conjugations relative to each

6/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

012796197 **Image available**

WPI Acc No: 1999-602427/199952

XRPX Acc No: N99-444173

Flexible gas pipe with corrugated tube enclosed by braided cable sleeving

Patent Assignee: JESCHKE I (JESC-I)

Inventor: JESCHKE I

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19820255	C1	19991028	DE 1020255	A	19980506	199952 B

Priority Applications (No Type Date): DE 1020255 A 19980506

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19820255	C1		5	F16L-011/15	

Abstract (Basic):

... tube has a weld-on stub in the form of a rim next to a **round-wedge** shaped part next to a cylindrical part. Between the cylindrical part and a ridged part is a **sloping** surface.

6/3,K/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

012673966 **Image available**

WPI Acc No: 1999-480073/199941

XRPX Acc No: N99-357431

Support frame construction, especially for stands, stages or scaffolding works

Patent Assignee: LAYHER VERMOEGENSVERWALTUNGS-GMBH WILHEL (LAYH-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19806093	A1	19990819	DE 1006093	A	19980214	199941 B

Priority Applications (No Type Date): DE 1006093 A 19980214

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19806093	A1		23	E04B-001/24	

Abstract (Basic):

... rods (35) which have vertical side walls (72.1, 72.2) and horizontal and/or **sloping** walls on the outside that have the same wall thickness except in the transition areas...
... wall sections include vertical outer surfaces that form one eighth of the periphery of a **circular wedge** bracket. The connector head is divided into top and bottom sections (44), between which is...

6/3,K/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012663870 **Image available**
WPI Acc No: 1999-469975/199940
XRPX Acc No: N99-350970

Method for forming circular wedge bore profile

Patent Assignee: DRESSELHAUS GMBH & CO KG JOSEPH (DRES-N)
Inventor: GROEBER H
Number of Countries: 084 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19804578	C1	19990826	DE 1004578	A	19980205	199940 B
WO 9939855	A1	19990812	WO 99EP770	A	19990204	199940
AU 9927237	A	19990823	AU 9927237	A	19990204	200005

Priority Applications (No Type Date): DE 1004578 A 19980205

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19804578	C1		10	B23D-001/28	
AU 9927237	A			B23B-041/04	Based on patent WO 9939855
WO 9939855	A1	G		B23B-041/04	

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU
CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL
TJ TM TR TT UA UG US UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

Abstract (Basic):

... axis, with a simultaneous relative rotation between the tool holder and
workpiece. The punch is **angled** with respect to the movement direction.

6/3,K/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
011088096

WPI Acc No: 1997-066020/199707

XRPX Acc No: N97-054222

**Variable passage swirl chamber type combustion chamber for IC engines - has
primary and secondary combustion chambers, inlaid swirl block, plugger and
oil sprayer**

Patent Assignee: UNIV HUAZHONG SCI & ENG (UYHU-N)

Inventor: HUANG R; LIU Y

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CN 1077778	A	19931027	CN 92102743	A	19920414	199707 B

Priority Applications (No Type Date): CN 92102743 A 19920414

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CN 1077778	A			F02B-019/08	

...Abstract (Basic): inlaid swirl block, plugger and oil sprayer. The
plugger is in a circular rectangular wedge, **circular wedge**, or semi-circular
wedge form and the inlaid block matched with it is a variable or fixed
inclination channel one...

6/3,K/7 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
009703817 **Image available**

WPI Acc No: 1993-397370/199350
XRPX Acc No: N93-307172

Adjustable ratcheted dinghy rope block - has internal adjustable overload 'clutch' which allows sheave its ship against its ratchet mechanism and is adjustable by knob

Patent Assignee: MCNAMARA D M (MCNA-I)

Inventor: MCNAMARA D M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2268146	A	19940105	GB 9213832	A	19920630	199350 B

Priority Applications (No Type Date): GB 9213832 A 19920630

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2268146	A		8	B66D-003/04	

...Abstract (Basic): clutch to slip is adjustable by a control on the outside of the body. The **angle** between the cheeks of the sheave, and the pattern on their inner surface is such...

...The sheave slips against a **circular wedge** shaped clutch. The direction in which motion is opposed is easily adjusted by the user...

6/3,K/8 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009673248 **Image available**

WPI Acc No: 1993-366801/199346

XRAM Acc No: C93-163034

XRPX Acc No: N93-283038

Twin-tyre used in tyre industry - comprising two carcasses with discs on same spindle with side circular projections, removable tread, and bolts nuts screwed to bring discs together and butt-join tread

Patent Assignee: KEKELIDZE E V (KEKE-I)

Inventor: KEKELIDZE E V; VADACHKORIYA N O

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1773740	A1	19921107	SU 4843718	A	19900621	199346 B

Priority Applications (No Type Date): SU 4843718 A 19900621

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 1773740	A1		3	B60C-011/22	

...Abstract (Basic): side circular projections. Inner surface of tread, w.r.t. rotational axis of tyre, has **sloping** graduated shape, with mirror-image from **circular wedge** -shaped projection, between carcasses. Inner disc has several nuts (11) symmetrically from centre and, on...

6/3,K/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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008740884 **Image available**

WPI Acc No: 1991-244900/199133

XRPX Acc No: N91-186791

Instruments horizontal levelling device - has rotating wedges to act through spherical supports on control element connected to instrument

Patent Assignee: APPL GEODESY (GEOD-R)

Inventor: GLUKHIKH V I

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1613862	A	19901215	SU 4184845	A	19870121	199133 B

Priority Applications (No Type Date): SU 4184845 A 19870121

...Abstract (Basic): During rotation of **circular wedges** (2) relative to the fixed body, their **inclined** planes contact the corresp. spherical support (4), fixed on each of the bases of the...

...During rotation of **circular wedges** in turn, movement of element (3) is carried out relative to one of the mutually...

6/3,K/11 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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008328367 **Image available**

WPI Acc No: 1990-215368/199028

XRPX Acc No: N90-167185

Tape drive channel e.g. for sloping -line video recording - includes circular wedge-shaped insert matched in size to profile of setting orifice

Patent Assignee: TRAVNIKOV E N (TRAV-I)

Inventor: TRAVNIKOV E N

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1531146	A	19891223	SU 4297899	A	19870824	199028 B

Priority Applications (No Type Date): SU 4297899 A 19870824

...Abstract (Basic): tape drive channel includes a block of rotating (format C) heads, a carrying plate with **inclined** adjusting orifice (4) beneath it. In order to extend the functional scope, now included is a **circular wedge** -shaped insert (18) whose dimensions match the profile of the oblique setting orifice (4) in...

6/3,K/12 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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007898889

WPI Acc No: 1989-164001/198922

XRAM Acc No: C89-073085

XRPX Acc No: N89-124979

Rolling mill for circular wedge-shaped metal profiles - has mandrel, conical support surfaces and rotatable bush, with guiding rollers to feed in metal strip

Patent Assignee: CHELYABINSK POLY (CHLP)

Inventor: KREMSOV N A; VARANKIN O A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1440593	A	19881130	SU 4170523	A	19861225	198922 B

Priority Applications (No Type Date): SU 4170523 A 19861225

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 1440593	A		5		

...Abstract (Basic): rotatable relative to axis of cylinder. Guiding rollers are in guides on base at right **angles** to rotational axis of cylinder, which is in two halves, one of which houses bush...

...out to make piston rings using conical rollers with barrel-length=110 mm

and cone- **angle** =13 deg...

6/3,K/13 (Item 13 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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007810783

WPI Acc No: 1989-075895/198910

XRAM Acc No: C89-033926

XRPX Acc No: N89-057792

**Cutting mechanism removing heads, during fish-filleting - has cutting discs
freely mounted in holes in rotatable holder, made as two separable discs**

Patent Assignee: KALIN FISH IND TECH (KLFI-R)

Inventor: NIKOLAEV A L; SMIRNOV V K

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1421402	A	19880907	SU 4149923	A	19861016	198910 B

Priority Applications (No Type Date): SU 4149923 A 19861016

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 1421402	A		3		

...Abstract (Basic): axes. Holder is separable and made of two connecting discs (1,2), one (2) having **circular wedge**-shaped projection (4) on outer surface, at an **angle** identical to **angle** at which cutting discs are sharpened...

6/3,K/14 (Item 14 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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007600647

WPI Acc No: 1988-234579/198833

XRAM Acc No: C88-104948

XRPX Acc No: N88-178385

**Fabric pieces conveyor hanger - has fixed inclined gripping surface and
cooperating rotary spring-loaded conical wedge**

Patent Assignee: GERBER GARMENT TECHNOLOGY INC (GERB)

Inventor: VAIDA R M

Number of Countries: 004 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4760912	A	19880802	US 8756459	A	19870529	198833 B
GB 2205301	A	19881207	GB 8812246	A	19880524	198849
DE 3818135	A	19881215	DE 3818135	A	19880527	198851
FR 2615839	A	19881202	FR 887111	A	19880527	198904
GB 2205301	B	19910508				199119
DE 3818135	C	19910814				199133

Priority Applications (No Type Date): US 8756459 A 19870529

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4760912	A		8		

...Abstract (Basic): Hanger for a conveyor transporting limp items between work stations, has a fixed and **inclined** gripping surface cooperating with a rotary and spring-loaded conical wedge of cone **angle** equal to the **inclination angle** of the fixed gripping surface. The wedge is rotatable about a support pin; and is...

...Abstract (Equivalent): and beyond said one end extending away from said

body to said second end, a **circular wedge** element, being circular in section, mounted on said pin for rotation relative to said pin... longitudinal axis and for sliding movement relative to said pin along said longitudinal axis, - said **circular wedge** element having an external substantially conical gripping surface concentric with said longitudinal axis of said pin and having a given general cone **angle** with respect to said longitudinal axis of said pin, - a substantially planar fixed gripping surface on said body co-operable with said conical gripping surface of said **circular wedge** element to grip a work unit between said **circular wedge** element and said fixed gripping surface, - said fixed gripping surface being perpendicular to a reference plane containing said longitudinal axis and, as measured in said reference plane, being **inclined** relative to said longitudinal axis by an **angle** substantially equal to said cone **angle**, and spring means for urging said **circular wedge** element along said longitudinal axis of said pin toward said fixed gripping surface of said body so as to resiliently press said **circular wedge** element against a workpiece inserted between said **circular wedge** element and said fixed gripping surface.

6/3,K/15 (Item 15 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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007117431

WPI Acc No: 1987-117428/198717

XRPX Acc No: N87-088010

High speed scanner for laser beam system - consists of circular mirror mounted in air bearing and rotating at high speed

Patent Assignee: MESSERSCHMITT-BOLKOW-BLO (MESR)

Inventor: DIEHL C; KIRSCH H

Number of Countries: 007 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 219620	A	19870429	EP 86110213	A	19860724	198717 B
DE 3537843	A	19870430	DE 3537843	A	19851024	198718
DE 3537843	C	19871001				198739
US 4717224	A	19880105	US 86923003	A	19861024	198803
EP 219620	B	19920325	EP 86110213	A	19860724	199213

Priority Applications (No Type Date): DE 3537843 A 19851024

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 219620	A	G	4		
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Designated States (Regional): CH DE FR IT LI SE

DE 3537843	A		4		
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US 4717224	A		4		
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EP 219620	B		5		
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Designated States (Regional): CH FR IT LI SE

...Abstract (Basic): side. The abutting faces of the two elements form a reflecting surface (12) which is **inclined at an angle of between 0.2 and 2 deg. to the parallel end faces of the device so that each element forms a circular wedge**.

...Abstract (Equivalent): cylinder bodies (10, 11) each with a respective end surface (10b, 11b) having a small **angle** alpha of between 0.2 deg and 2 deg relative to the other end surface...

...Abstract (Equivalent): cylindrical wedges comprising an outer end surface perpendicular to the rotation axis and an inner **slanted** end

surface deviating by an **angle** alpha from a perpendicular to the rotation axis. The mirror surface is located between the inner **slanted** end surfaces of the two cylindrical wedges, forming a scanning cylinder through which the mirror surface passes at a **slant**. The frame includes a device (15) for rotating the scanning cylinder by a driving gas...

6/3,K/16 (Item 16 from file: 350)

DIALOG(R) File 350:Derwent WPIX
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004408417
WPI Acc No: 1985-235295/198538
XRPX Acc No: N85-176107

Tube billet reducing die - has flexible metal casing round cavity wedges and outside container body for extended packing life

Patent Assignee: SARAT AGRIC MECH (SAAG-R)
Inventor: BARANOV Y U V; KOVALENKO N A; PASHIN Y U D
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1143498	A	19850307	SU 3646277	A	19830927	198538 B

Priority Applications (No Type Date): SU 3646277 A 19830927

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 1143498	A		4		

...Abstract (Basic): of wedges which form the working cavity and are arranged radially and move at right **angles** to the die axis. The die should be fitted with a thin walled flexible metal...

...USE/ADVANTAGE - Tubular billet reducing die. Extended seal and packings life obtained by flexible easing **round wedges** and enclosed by container body. Bul.9/7.3.85...

6/3,K/17 (Item 17 from file: 350)

DIALOG(R) File 350:Derwent WPIX
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004350374
WPI Acc No: 1985-177252/198529
XRPX Acc No: N85-133196

Adjustable auxiliary rear-view mirror - comprises circular wedge -shaped base and wedge-shaped ring carrying convex mirror

Patent Assignee: ADAMS R W (ADAM-I)
Inventor: ADAMS R W
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4526446	A	19850702	US 83505925	A	19830620	198529 B

Priority Applications (No Type Date): US 83505925 A 19830620

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4526446	A		5		

...Abstract (Basic): The convex mirror piece is spherical about an axis which extends at an acute **angle** to the rotational axis of the adjusting ring. The ring has an internal circumferential groove...

6/3,K/18 (Item 18 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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003970676

WPI Acc No: 1984-116220/198419

XRAM Acc No: C84-048897

XRPX Acc No: N84-085873

**Horizontal base on sea bed for oil rig equipment etc. - provided by
driving in column topped with wedge plate to compensate for slope**

Patent Assignee: MOBIL OIL CORP (MOBI)

Inventor: BUNNELL R L; MILLER H W; PADILLA J R

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2533953	A	19840406	FR 8315778	A	19831004	198419 B
GB 2129472	A	19840516	GB 8326488	A	19831004	198420
AU 8319697	A	19840412				198422
NO 8303606	A	19840430				198424
GB 2129472	B	19860312				198611
CA 1213741	A	19861112				198650

Priority Applications (No Type Date): US 82432880 A 19821005

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
FR 2533953	A		12		

...Abstract (Basic): a horizontal support area at a subsea production site comprising the steps of: determining the **slope** of the subsea production site; prefabricating a wedge comprising two concentric, superimposed, generally **circular wedge** segments which are capable of relative rotation about their common axis, each wedge segment defining an **angle** between its upper and lower surfaces, by rotating one segment relative to the other so as to vary the **angle** between the upper surface of the upper segment and the lower surface of the lower segment until the wedge has a **slope** equal and opposite to the determined **slope** of the site; and placing the wedge on the subsea production site...

...of the sea. A carrying table is fixed on top of the column and the **slope** to the horizontal of the table top is measured...

...A wedge plate is prefabricated with an **angle** equal an opposite to that of the table top. The wedge plate is positioned on...

...required horizontal surface. Pref. the wedge plate comprises two superimposed, coaxial discs, of equal wedge **angle** , which can be rotated w.r.t. each other...

...Abstract (Equivalent): a horizontal support area at a subsea production site comprising the steps of: determining the **slope** of the subsea production site; prefabricating a wedge comprising two concentric, superimposed, generally **circular wedge** segments which are capable of relative rotation about their common axis, each wedge segment defining an **angle** between its upper and lower surfaces, by rotating one segment relative to the other so as to vary the **angle** between the upper surface of the upper segment and the lower surface of the lower segment until the wedge has a **slope** equal and opposite to the determined **slope** of the site; and placing the wedge on the subsea production site.

6/3,K/19 (Item 19 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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003166182

WPI Acc No: 1981-26724D/198115

**Elevator rope clamp for drilling - has stop ring with coarser thread
screwed onto body so cam on ring locates into collar groove**

Patent Assignee: S KAZA GEOLOG OPERN (SKGE-R)

Inventor: SAIFULLIN Y A I

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 751959	B	19800730				198115 B

Priority Applications (No Type Date): SU 2645279 A 19780719

...Abstract (Basic): The clamp consists of body and collar threaded to one another **round wedge** inserts and has been modified to prevent the thread pulling or twisting apart. The unit...

...collar has an endface cam connector, and the thread on the ring should be coarser **pitched** than the collar. Bul.28/30.7.80

6/3,K/20 (Item 20 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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003016253

WPI Acc No: 1981-B6264D/198108

**Retarder for micro-wire winding tension control mechanism - has roller with
annular wedge-shaped channel, with wedge angle less than friction angle**

Patent Assignee: ARAKCHEEV I E (ARAK-I)

Inventor: ARAKCHEEV I E

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 741985	B	19800705				198108 B

Priority Applications (No Type Date): SU 2588181 A 19780307

...Abstract (Basic): The device comprises a roller (1) freely mounted on a spindle (2) having a **circular wedge** -shaped channel of wedge **angle** alpha less than the friction **angle** . The retarding mechanism is mounted on spindle (2) and consists of brake discs (3,4...

...roller (1) is rotated by the wire as it moves round it, and since the **angle** of the wedge shaped channel alpha is less than the friction **angle** , the wire does not slide relative to the roller and the braking moment is selected...

6/3,K/21 (Item 21 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

001735478

WPI Acc No: 1977-H1973Y/197735

**Motor with bell shaped rotor - has base and tubular skirt bonded together
at flat inclined joint**

Patent Assignee: Lenco AG (LENC-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 2607244	A	19770825				197735 B

Priority Applications (No Type Date): DE 2607244 A 19760223

...Abstract (Basic): through which the shaft passes axially. The tube and the base are bonded together via **circular wedge** shaped surfaces...

6/3,K/22 (Item 22 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
001366612

WPI Acc No: 1975-16246W/197510

**Cyclone dust separator with improved energy efficiency - having diffusor
in gas outlet to recover kinetic energy**

Patent Assignee: SIEMENS AG (SIEI)

Number of Countries: 008 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 2341789	A	19750227				197510 B
NL 7409670	A	19750219				197510
DK 7404299	A	19750421				197521
FR 2240771	A	19750418				197522
CH 576802	A	19760630				197629
US 3972698	A	19760803				197633
IT 1019957	B	19771130				197811
AT 7405698	A	19780315				197813
DE 2341789	B	19790613				197925

Priority Applications (No Type Date): DE 2341789 A 19730817

...Abstract (Basic): outlet is at about the same ht. as this plate. Into the conical outlet, a **circular wedge** shaped diverter projects. The **angle** of the wedge is smaller than the **angle** of the conical outlet, the difference being ≤ 10 degrees. The axis of the outlet branch...
...of plate and comes tangentially off annulus. The conical outlet can have a progressively increasing **angle** of divergence. The main sepn. energy of a cyclone is provided by the vortex. This...

6/3,K/23 (Item 23 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
000742734

WPI Acc No: 1970-80074R/197043

Production of tyre bands

Patent Assignee: TOYO RUBBER IND CO LTD (TOYF)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 70034271	B					197043 B

Priority Applications (No Type Date): JP 6527487 A 19650510

...Abstract (Basic): process for producing a tire band uses an injection moulding machine which consists of a **circular wedge** member for fixing an outside mould, a frame comprising two semicylindric members, the outside mould...
...mould can be split in several parts in planes crossing the central axis at right **angles** . A moulding material is injected from one or more spruer bushes of the injection moulding...

6/3,K/24 (Item 1 from file: 347)

DIALOG(R) File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.
03665803 **Image available**

HOLDING DEVICE

PUB. NO.: 04-030903 [JP 4030903 A]
PUBLISHED: February 03, 1992 (19920203)
INVENTOR(s): HORIKAWA TOSHIYUKI

APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 02-133758 [JP 90133758]
FILED: May 25, 1990 (19900525)
JOURNAL: Section: M, Section No. 1247, Vol. 16, No. 203, Pg. 76, May
14, 1992 (19920514)

ABSTRACT

... with a shaft 14 with bevel gear prevented from revolving by a lever 19, a **circular wedge** 27, bevel gear 13, housing 15, and bevel gear 12 conduct the same revolution. Since the bevel gear 12 and a **circular wedge** 11 are connected to each other, the **circular wedges** 11 and 27 conduct the save revolution. In addition, when the rotation of the housing...
... with bevel gear may revolve, the bevel gear 12 is rotated by the same revolution **angle** in the direction opposite to the rotational direction of the bevel gear 13, which is integrated in a body with the **circular wedge** 27. The **circular wedges** 27 and 11 are rotated in the opposite direction by the same revolution **angle** . According to two states of the **circular wedges** 11 and 27. A maximum **incline angle** and the direction of a **circular wedge** , which presses three rotary seats 6, can be varied. Therefore, the eccentricity quantity and direction...

6/3,K/25 (Item 2 from file: 347)

DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.
00704273 **Image available**
ULTRASONIC TRANSMITTER/RECEIVER
PUB. NO.: 56-024573 [JP 56024573 A]
PUBLISHED: March 09, 1981 (19810309)
INVENTOR(s): YAMAMOTO YOSHIAKI
UETAKE TOMOAKI
APPLICANT(s): TOKYO KEIKI CO LTD [000338] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 54-100106 [JP 79100106]
FILED: August 06, 1979 (19790806)
JOURNAL: Section: P, Section No. 62, Vol. 05, No. 77, Pg. 76, May 21, 1981 (19810521)

ABSTRACT

... accuracy and reduce an inspection time by focusing ultrasonic beams in linearity by providing a **circular wedge** having a hole equal to that of the annular ultrasonic vibrator, and a specified **angle of inclination**...
... hole equal to that of an ultrasonic vibrator 1 at the center and a specified **inclination** 7 on the inner side is provided closely adjoining the vibrator 1. A cylindrical sound...
... the hole part. When detecting defects immersedly with an ultrasonic transmitter/receiver thus formed, an **angle** 7 of **inclination** of the wedge 2 is so set that the reflected wave from the water surface

File 348:EUROPEAN PATENTS 1978-2003/Sep W03

File 349:PCT FULLTEXT 1979-2002/UB=20030925,UT=20030918

Set	Items	Description
S1	72	(CIRCULAR OR ROUND)() (WEDGE OR WEDGES)
S2	405164	SLANT??? OR ANGLE? ? OR INCLIN?
S3	254196	TILT??? OR SLOPE? ? OR SLOPING OR GRADIENT? OR PITCH???
S4	0	S1(5N)S2
S5	0	S1(5N)S3
S6	16	S1(S)S2:S3
S7	6	S1(20N)S2:S3
S8	10	S6 NOT S7

7/3,K/2 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

00753291

Expanded tubular hub disk pack assembly clamp

Ausgedehnte, rohrformige Nabe zur Klemmung einer Plattenstapeleinheit

Moyeu tubulaire expanse pour le fixation d'un assemblage de disques

PATENT ASSIGNEE:

Hewlett-Packard Company, (206030), 3000 Hanover Street, Palo Alto,
California 94304, (US), (Proprietor designated states: all)

INVENTOR:

Jewell, Robert W., 2401 S. Apple, Pt. H107, Boise, Idaho 83706, (US)

Peter, Gary M., 9515 Bienapfl, Boise, Idaho 83709, (US)

LEGAL REPRESENTATIVE:

Schoppe, Fritz, Dipl.-Ing. (55463), Schoppe, Zimmermann & Stockeler
Patentanwalte Postfach 71 08 67, 81458 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 709838 A1 960501 (Basic)

EP 709838 B1 000112

APPLICATION (CC, No, Date): EP 95110815 950711;

PRIORITY (CC, No, Date): US 331770 941031

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G11B-017/038

ABSTRACT WORD COUNT: 279

NOTE: Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200002	692
CLAIMS B	(German)	200002	665
CLAIMS B	(French)	200002	750
SPEC B	(English)	200002	2442

Total word count - document A 0

Total word count - document B 4549

Total word count - documents A + B 4549

...SPECIFICATION the tubular section 13b, which is as large or larger than the diameter of the **circular wedge** member 25, to a smaller diameter within the tubular section 13b. The **slope** of the surface of the conical section is selected to provide a self locking engagement...

...CLAIMS said one end (17) of said hub (13), for receiving said circular periphery of said **circular wedge** member (25) and having an interference fit engagement therewith for radially expanding said tubular section (13b), the **slope** of said **sloping** surface providing self locking frictional engagement between said **sloping** surface and said circular periphery of said **circular wedge** member (25)...

7/3,K/3 (Item 3 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00746419

EXERCISE APPARATUS

UBUNGSGERAT

APPAREIL D'ENTRAINEMENT

PATENT ASSIGNEE:

Gardner, Peter Edward, (2073150), 43 Queens Drive, Thames Ditton, Surrey
KT7 0TJ, (GB), (applicant designated states: DE;ES;FR;IT;NL;PT)

INVENTOR:

Gardner, Peter Edward, 43 Queens Drive, Thames Ditton, Surrey KT7 0TJ,
(GB)

LEGAL REPRESENTATIVE:

Gibson, Stewart Harry (30972), URQUHART-DYKES & LORD, Three Trinity
Court, 21-27 Newport Road, Cardiff CF2 1AA, (GB)

PATENT (CC, No, Kind, Date): EP 762911 A1 970319 (Basic)

EP 762911 B1 981125

WO 9532763 951207

APPLICATION (CC, No, Date): EP 95921026 950601; WO 95GB1272 950601

PRIORITY (CC, No, Date): GB 9410958 940601; GB 9419375 940926

DESIGNATED STATES: DE; ES; FR; IT; NL; PT

INTERNATIONAL PATENT CLASS: A63B-023/04; A61H-001/02;

NOTE: No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS B	(English)	9848	360
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CLAIMS B	(German)	9848	294
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CLAIMS B	(French)	9848	386
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SPEC B	(English)	9848	1924
--------	-----------	------	------

Total word count - document A	0
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Total word count - document B	2964
-------------------------------	------

Total word count - documents A + B	2964
------------------------------------	------

...SPECIFICATION which has been divided into two parts 10,12 along a plane P which is **inclined** at an acute **angle** to the transverse end planes of the body. The two **circular** , **wedge** -shaped parts 10,12 can be turned relative to each other, through a selected **angle** , and then secured together against relative movement: for example, one part 10 may have pins...

7/3,K/4 (Item 1 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00852101 **Image available**

GRIPPER AND COMPLEMENTARY HANDLE FOR USE WITH MICROCOMPONENTS

ORGANE DE PREHENSION ET POIGNEE COMPLEMENTAIRE POUR MICROCOMPOSANTS

Patent Applicant/Assignee:

ZYVEX CORPORATION, 1321 North Plano Road, Suite 200, Richardson, TX 75081
, US, US (Residence), US (Nationality)

Inventor(s):

PARKER Eric G, 600 Andersonville Lane, Wylie, TX 75098, US,
SKIDMORE George D, 5000 K Avenue, Apt. 3623, Plano, TX 75074-3054, US,

Legal Representative:

TANNENBAUM David H (et al) (agent), Fulbright & Jaworski L.L.P., 2200
Ross Avenue, Suite 2800, Dallas, TX 75201, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200185401 A2-A3 20011115 (WO 0185401)
Application: WO 2001US15011 20010510 (PCT/WO US0115011)
Priority Application: US 2000569329 20000511

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 15867

Fulltext Availability: Detailed Description

Detailed Description

... tab 808. As shown, tabs 806 and 808 are arranged. at approximately a 90 degree **angle** respective to each other. Clip 804 nirthier comprises a **round wedge** (or 'Vimble") 8 1 0. As described above, the dimple 8 1 0 may engage...

7/3,K/5 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00424354 **Image available**

MICROSCOPE WITH LASER PORT

MICROSCOPE A FENETRE POUR LASER

Patent Applicant/Assignee:

CELL ROBOTICS INC,
LUCAS Brian Ronald,
CONIA Jerome,
WOLF Michael A,

Inventor(s):

CONIA Jerome,
WOLF Michael A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9814816 A1 19980409
Application: WO 97GB2681 19970929 (PCT/WO GB9702681)
Priority Application: US 96725260 19961002

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
FI GB GE GH HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN
YU ZW GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK
ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN
TD TG

Publication Language: English

Fulltext Word Count: 8872

Fulltext Availability: Detailed Description

Detailed Description

... In the Figs. 3 - 9, items are numbered as follows... laser beam positioning component 110, **circular wedge** prism 111, **circular wedge** prism 112,, rotary positioning mounting stage 113,, rotary positioning mounting stage 114, first wedge apex **angle** 115, second wedge apex **angle** 116, wedges' rotation axis 117,, laser beam 118, wedges, adjacent faces 119, laser beam alignment...stationary mounting frame 154, pivot point 155. In one aspect control over of the incident **angle** of a laser beam is achieved by using a

pair of **circular wedge** prisms 111 and 112 used as beam steering elements. A laser beam positioning component 110...

7/3,K/6 (Item 3 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00314610 **Image available**

EXERCISE APPARATUS

APPAREIL D'ENTRAINEMENT

Patent Applicant/Assignee:

GARDNER Peter Edward,

Inventor(s):

GARDNER Peter Edward,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9532763 A1 19951207

Application: WO 95GB1272 19950601 (PCT/WO GB9501272)

Priority Application: GB 9410958 19940601; GB 9419375 19940926

Designated States: AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU

IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD

SE SG SI SK TJ TT UA US UZ VN KE MW SD SZ UG AT BE CH DE DK ES FR GB GR

IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 2265

Fulltext Availability: Detailed Description

Detailed Description

... which has been divided into two parts 10,12 along a plane P which is **inclined** at an acute **angle** to the transverse end planes of the body. The two **circular, wedge-shaped** parts 10,12 can be turned relative to each other, through a selected **angle**, and then secured together against relative movement: for example, one part 10 may have pins...

8/3,K/1 (Item 1 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00749236

Piston pump with improved hold-down mechanism

Kolbenpumpe mit Niederhaltevorrichtung

Pompe a pistons avec mecanisme de retenue

PATENT ASSIGNEE:

DYNEX/RIVETT INC., (203930), 770 Capitol Drive, Pewaukee Wisconsin 53072,

(US), (applicant designated states: DE;FR;GB)

INVENTOR:

Claas, Anthony M., S37 W27645 sun Valley Trail, Wisconsin 53188, (US)

LEGAL REPRESENTATIVE:

Fleck, Hermann-Josef, Dr.-Ing. et al (75871), Patentanwalte A. Jeck &

H.-J. Fleck Postfach 11 65, D-71697 Schwieberdingen, (DE)

PATENT (CC, No, Kind, Date): EP 705975 A1 960410 (Basic)

APPLICATION (CC, No, Date): EP 95115578 951002;

PRIORITY (CC, No, Date): US 317213 941003

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: F04B-001/12;

ABSTRACT WORD COUNT: 142

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count

CLAIMS A (English) EPAB96 429

SPEC A (English) EPAB96 4449
Total word count - document A 4878
Total word count - document B 0
Total word count - documents A + B 4878
...SPECIFICATION an electric motor, not shown.

The shaft 27 is keyed or otherwise attached to a **circular, wedge-shaped** wobble plate 35 having a planar left face 37 generally normal to the axis 29 and a planar right face 39 **angled** with respect to such axis 29. The pump 11 also has an annular, flat left...

8/3,K/6 (Item 6 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00360600

Improvements relating to consumer units.

Verbrauchereinheiten.

Appareillages d'abonnes.

PATENT ASSIGNEE:

SQUARE D COMPANY, (305030), Executive Plaza, Palatine, IL 60067, (US),
(applicant designated states: BE;DE;FR;GB;IT;LU;NL)

INVENTOR:

Cole, Anthony Robert, 10 Chudleigh Freshbrook, Swindon Wilts SN5 8NQ,
(GB)

LEGAL REPRESENTATIVE:

Sorrell, Terence Gordon et al (36143), Fitzpatrick's 4 West Regent Street,
Glasgow G2 1RS Scotland, (GB)

PATENT (CC, No, Kind, Date): EP 324622 A1 890719 (Basic)

APPLICATION (CC, No, Date): EP 89300270 890112;

PRIORITY (CC, No, Date): GB 8800851 880114

DESIGNATED STATES: BE; DE; FR; GB; IT; LU; NL

INTERNATIONAL PATENT CLASS: H02B-001/10;

ABSTRACT WORD COUNT: 123

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	EPABF1	315
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SPEC A	(English)	EPABF1	5286
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Total word count - document A	5601
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Total word count - document B	0
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Total word count - documents A + B	5601
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...SPECIFICATION face 138 extending "upwardly" from the bottom edge of the face 136 at a first **angle** (typically 45(degree) to the horizontal as illustrated) and a second face 140 extending from the end of the first face 138 at a second **angle** (typically 70(degree) to the horizontal).

Small conical pips 142 (shown greatly enlarged in Fig...

...156, 158 at the apex thereof. The projections 152, 154 are in the form of **circular wedges** thickening in a downward direction.

As mentioned above, the clip 108 serves to retain the...

8/3,K/9 (Item 2 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00454530 **Image available**

GOLF PUTTING DEVICE AND METHOD

DISPOSITIF ET PROCEDE DE PUTTING

Patent Applicant/Assignee:

NBG TECHNOLOGIES INC,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9844994 A2 19981015
Application: WO 98US7375 19980409 (PCT/WO US9807375)
Priority Application: US 97831587 19970409
Designated States: CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT
SE
Publication Language: English
Fulltext Word Count: 3520
Fulltext Availability: Detailed Description
Detailed Description

... surface disposed on a top portion of its club head body, The reflective surface is **angled** at approximately forty-five degrees with respect to both the horizontal and vertical axes. A...
...this position, the shaft of the golf club extends at an approximate forty five degree **angle** with respect ,to both the horizontal and vertical axes. The golfer positions his or her...
...the ball squarely at the hole. The reflective surface is shaped as a semi 35 **circular wedge** , allowing a wide field of view in which to sight and align the putter with...image of the cup and green to the eye of the golfer over a wide **angle** of view.

BRIEF DESCRIPTION OF THE DRAWINGS

A complete understanding of the present invention may...18 has no functional purpose.

The reflective surface 18 is shaped substantially as a semi- **circular wedge** , In the ball-addressing position (putting position) illustrated in FIGURES 1 and 3, the reflective...

...22 and to surface 16, It will also be observed that the shaft 11 is **angled** at approximately forty-five degrees with both the vertical and horizontal axes,

FIGURE 2 represents...to be gripped by the golfer with the reflective surface 18 disposed at an approximate **angle** of forty-five degrees both to horizontal (X - X) and to vertical (Y - Y) axes...

8/3,K/10 (Item 3 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00172953

ARCHES

ARCS DE VOUTE

Patent Applicant/Assignee:

AL-KHATTAT Ibrahim Madhi,

Inventor(s):

AL-KHATTAT Ibrahim Madhi,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9006409 A1 19900614

Application: WO 88GB1092 19881208 (PCT/WO GB8801092)

Priority Application: WO 88GB1092 19881208

Designated States: AT AU BB BE BG BJ BR CF CG CH CM DE DK FI FR GA GB HU IT
JP KP KR LK LU LU MC MG ML MR MW NL NO RO SD SE SN SU TD TG US

Publication Language: English

Fulltext Word Count: 2442

Fulltext Availability: Detailed Description

Detailed Description

... short lengths of pipe are welded on either side in the required numbers, spacings, and **inclinations** in order to house the ends of segment members.

As shown in Figure 1, there are two types of connectors: straight and angular, according to the profile **angles** they produce. For angular connectors, short curved pipes are welded to the diaphragm as one...
...for angular connectors, a filler material (e.g. sand-cement grout) is used to fill **circular wedges** at the bottoms of the short pipes, so as to provide even seating for SRT...


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Searched English pages for "orthotics" "round wedge" OR "circular wedge". Results 1 - 1 of 1. Search took 0
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... 6). Alignment cup (**Circular wedge**) connector Kit for Re-Flex VSP, Large
(7-9). Alignment ... 9). Premier Prosthetics and **Orthotics** Limited. Sydney ...
[rehabtech.eng.monash.edu.au/premier/cosearch3.asp?](http://rehabtech.eng.monash.edu.au/premier/cosearch3.asp?types=Foot+Specific+Connectors)
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Interest: [xxxxxxxx](#)

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... angles, but deviation angles (determined from the **wedge angle** and the refraction index). One of the photos attached shows a 2° **round wedge prism** pinched by ...
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MOClamps 2

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Video Analysis

... The object with the driver is to get a 13 to 14 degree launch **angle** with less than 3000 RPM of spin, with a straight ... **Wedge** fitting is a factor of loft and bounce ...

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... Self-Tightening Clamp, New 135° multi-**angle** swivel clamp has a severe duty angled tooth design plus drop forged **round wedge** to provide the exact pull **angle**. ...

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... Tail usually wide, shorter than width at anus, with a **round wedge**-shaped projection on ... a line running parallel with the calomus and lamina forms an **angle** of 70 ...

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... Page 14. Relapping of seating faces after seal welding. Determination of final seat/seat **angle** with gauge and shims to determine ideal wedge **angle** (6 – 60"). ...

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... 30. An unusual "LOW ANGLE" SPOKE SHAVE by EC Stearns & Company, Syracuse, New York. ... Details included a chamfered **round wedge** inscribed with concentric circles. ...

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... When you drive a typical screw into wood, the screw acts like a **round wedge** that is forced into ... The larger the swing **angle**, the further the door will swing open ...

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... Finally, the laminae maintained an **angle** of orientation roughly parallel to the ... AP
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... matte-white surface - flat, nonglossy projection screen surface that affords a
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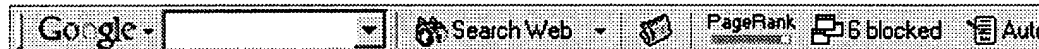
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... of a series of "teeth" or tiny chisels each set at an **angle** diagonally opposing ...

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... are formed of at least two segments of logarithmical spirals (**circular wedges**),
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number ... can be achieved by measuring the moment against the **angle** of twist. ...

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... Shaft and hub are provided with corresponding **circular wedges** with
identical slopes
but ... available by recording the tightening moment versus the **angle** of
twist. ...

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... a calibration input and converted to an array of five concentric **circular wedges**.
... time

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... see also This algorithm recursively places the children of a subtree into **circular
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... b) ,where the lateral field lines are approximated by **circular wedges** [4]. It ... BIT
bajo) S3 -> (BIT medio) S2 -> (BIT alto) Rotational speed (w) Rotor **Angle** (? ...

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... **Circular wedges** are grouped with ellipses, polygons, shells and meshes for rendering ... start
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... in Eades[7] (see also in di Battista et al[2]). This algorithm recursively places
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1998 Ultrasonics Symposium

... Grazing-**Angle** Scattering of Surface Acoustic Waves in Periodic Groove Arrays ... Simulations of Guided Waves Propagating Along Linear and **Circular Wedges** - CH Yang ...

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... Prove or disprove: There exists a non-empty perfect (=closed with no isolated point) subset of the unit circle which contains no rational **angle**. A6. ...

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... We begin by examining the effectiveness of distance and **angle** constraints in pruning our search. ... On the right, the dashed **circular wedges** show where I. 21. ...

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Raffles Institution Exploratory Labs - Photonics

... If there is a **slant** on one surface of the ... To determine the **angle** of a wedge, the following formula ... radian, while the sides of the **circular wedge** deviate from ... www.ri.sch.edu.sg/departments/xlabs/photonics/projects.htm - 26k - [Cached](#) - [Similar pages](#)

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... **Circular Wedge**. ... Infinite Slope, No Seepage; Consider a unit width slice of soil on an infinite slope with a surface **angle** β . Since the slope is infinite, the ... www.coe.uncc.edu/~jbanders/courses/GeotechII/26&27_Slope%20Stability%20-%20Infinite%20Slope%20&%20 - [Similar pages](#)

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... $r = f(\theta)$. If $d\theta$ is small, the wedge is approximately a **circular wedge**. The area of a **circular wedge** of radius r and **angle** $d\theta$ is. 1. 2. r . 2. ... www.millersv.edu/~bikenaga/calculus/notes/polar.ps - [Similar pages](#)

Bipolar Nebula Simulation

... The disk and the **circular wedge** both have density gradients applied to them. ... to find the optical depth of the system as a function of inclination and **angle**. ... www.ctio.noao.edu/REU/ctioreu_2003/Projects2003/rpeteron/rpeteron/bpnsimulation.html - 10k - [Cached](#) - [Similar pages](#)

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... Two **circular, wedge-shaped** prisms are suspended between the source of light and the specimen being examined. The two prisms are used for changing the **angle** of ... www.rife.org/crane/cranetherapy1.html - 24k - [Cached](#) - [Similar pages](#)

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... and the specimen are subtended two **circular, wedge-shaped, block ... typhosus**) so that the opposite **angle** of refraction ... a tissue section or culture **slant** is examined ... www.rife.org/magazine/aerohrcrafter.html - 23k - [Cached](#) - [Similar pages](#)
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Ising Model

... Each point of the lattice gets a **circular wedge** representing the direction of the ... Rotation per Step, if enabled, reflects by how great an **angle** a single site's ...

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... or equivalently, the center of mass of the two particles); the length of the spring and the **angle** of the ... 4. Problem 4. Particle sliding on a **circular wedge**. ...

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145-148

... length, or it may be circular, the density varying linearly with rotational **angle**. ... aperture on a straight wedge, a sector aperture on a **circular wedge**, and a ...

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17.4 Volume of a Wedge: the Method of Moving Slices

... of radius a by a plane passing through a diameter of the base and inclined at an **angle** of 45° ... We apply it here to computing the volume of a **circular wedge**. ...

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AVA 1

... LESS THAN $F/10$ THE **ANGLE** OF THE LIGHT COMING OFF THE PRISM IS STEEP ENOUGH TO INDUCE A ... One 4° $1/10$ wave 25 mm **circular wedge** prism; 1.25 inch locking ring. ...

www.astrovid.com/padc%20corrector/avaplanetart%20atmos%20dispersion%20corrector.htm - 38k - Sep 25, 2003 - [Cached](#) - [Similar pages](#)

Washburn, Winter 1999 Review

... The other number is the **angle** in degrees between the equatorial plane and the ... position to another is proportional to the area of the **circular wedge** formed by ...

www.nwc.navy.mil/press/Review/1999/winter/s&d1-w99.htm - 32k - [Cached](#) - [Similar pages](#)

Classical solutions of an electron in magnetized wedge billiards

... We have studied the classical solutions of a free electron constrained to move inside a **circular wedge** of **angle** θ , in the presence of a homogeneous ...

www.fis.unam.mx/CCF/areas_invest/acad/academicos/abstracts/aracelig/classical_solutions_of_an.html - 2k -

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... and denote b the **angle** QPR expressed in radians. Then one-quarter of the overlap area equals the difference between the area of the **circular wedge** QPR and the ...

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... one. The attached script creates a cylindrical bar on a 45 degree **angle** and a semi-circular **wedge** on one end of the bar. It then ...

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Magic Windows

... E). You are creating a **circular wedge**. Try and keep the nail file at a constant **angle** so that the edge of the disc is chamfered evenly all the way round. ...

www.microscopy-uk.org.uk/mag/art97b/magic.html - 21k - Cached - Similar pages

Icosahedral Constructions

... Rotating the dodecahedron about this axis through an **angle** of 72 degrees (or any ... in 1852, is a set of three mirrors, each a thin **circular wedge**, with angles of ...

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... 2. MODEL The two-dimensional (2D) model consists of a **circular wedge**, supported by a flexible ... has center of curvature at point O 1 , radius b D and **angle** 2θ ...

www.usc.edu/dept/civil_eng/Earthquake_eng/ Selected_Publ/PDF/FLEX_FND.PDF - Similar pages

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... You position one head at the corner of your yard, covering a **circular wedge** over an **angle** of 90 degrees, similar to that shown here. ...

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The Smithsonian Institute Annual Report 1944. Page 1 of 5 - ...

... the source of light and the specimen are subtended two **circular, wedge** shaped, block ... form of the Bacillus typhosus) so that the opposite **angle** of refraction may ...

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... in the microcell if the microcell is within the coverage **angle** of the ... exactly symmetrical, since the calculations are based on **circular wedge**-shaped sectors ...

eprints.ecs.soton.ac.uk/archive/ 00003825/01/47tc04-coombs.pdf - Similar pages

The Rife Microscope

... and the specimen are subtended two **circular, wedge-shaped**, block ... Typhosus) so that the opposite **angle** of refraction ... a tissue section or culture **slant** is examined ...
www.rife.de/mscope/mscope6.htm - 30k - [Cached](#) - [Similar pages](#)

THE PROTOFOUR MANUAL

... 4. Trim ends of **angle** square with the end cutters, and remove the rail head ... rails in the jig, LARGER head uppermost, and wedge in place with a **circular wedge**. ...
www.scalefour.org/history/manual/P4-416.htm - 35k - [Cached](#) - [Similar pages](#)

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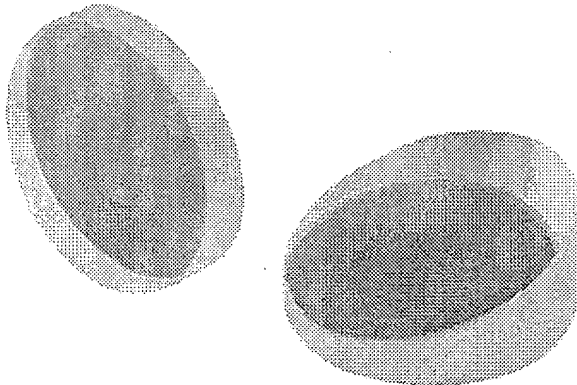
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THOR

[Home](#) / [Optics](#) / PS812-A**PS812-A 6° Round Wedge Prism, 350-650nm coating**

- ▶ Material: BK7 Grade A
- ▶ Dimensional Tolerance: $\pm 0.15\text{mm}$
- ▶ Angular Tolerance: ± 30 Arc Sec
- ▶ Surface Quality: 40-20 Scratch-Dig
- ▶ Surface Flatness: $\lambda/10$
- ▶ Design Wavelength: 633nm
- ▶ Thin Edge of Wedge: 3mm
- ▶ Angular Deviation: 6°
- ▶ T (mm): 8.11
- ▶ Wedge Angle: $11^\circ 22'$
- ▶ Power Diopters: 10.5

Round Wedge Prisms are used primarily in laser beam steering applications. A beam normal to the perpendicular surface of the prism is deflected through the "Angular Deviation". By combining two prisms that can be rotated independently, it is possible to direct the beam anywhere within the cone defined by 4 times the "Angular Deviation" of a single wedge.

Price: **\$48.20** Each, Euro: **€61.21** Availability: **In Stock** Weight: **0.10 lbs.**

Quantity:

- Order - PS812-A -

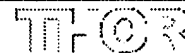
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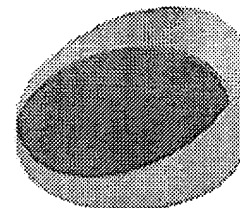
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Home / Optics / Prisms / Round Wedge Prisms

ROUND WEDGE PRISMS

Round Wedge Prisms are used primarily in laser beam steering applications. A beam normal to the perpendicular surface of the prism is deflected through the "Angular Deviation". By combining two prisms that can be rotated independently, it is possible to direct the beam anywhere within the cone defined by 4 times the "Angular Deviation" of a single wedge.



Qty	Part Number	Description	Price	Euro Price	Available	Compare
<input type="text" value="0"/>	PS810	2° Round Wedge Prism, 25.4 mm Diameter	\$40.00	€50.80	In Stock	<input type="checkbox"/>
<input type="text" value="0"/>	PS810-A2°	Round Wedge Prism, 350-650nm coating	\$48.20	€61.21	Lead Time	<input type="checkbox"/>
<input type="text" value="0"/>	PS810-B2°	Round Wedge Prism, 650-1050nm coating	\$48.20	€61.21	In Stock	<input type="checkbox"/>
<input type="text" value="0"/>	PS810-C2°	Round Wedge Prism, 1050-1580nm coating	\$49.20	€62.48	In Stock	<input type="checkbox"/>
<input type="text" value="0"/>	PS811	4° Round Wedge Prism, 25.4 mm Diameter	\$40.00	€50.80	In Stock	<input type="checkbox"/>
<input type="text" value="0"/>	PS811-A4°	Round Wedge Prism, 350-650nm coating	\$48.20	€61.21	Lead Time	<input type="checkbox"/>
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<input type="text" value="0"/>	PS811-C4°	Round Wedge Prism, 1050-1580nm coating	\$49.20	€62.48	In Stock	<input type="checkbox"/>
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<input type="text" value="0"/>	PS814	10° Round Wedge Prism, 25.4 mm	\$40.00	€50.80	In Stock	<input type="checkbox"/>
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Any information regarding components' suitability or availability must be discussed with a qualified Prosthetist.

Alignment cup (Circular wedge) connector Kit for Low Profile Re-Flex VSP, Small

Connector and vertical impact pylon for low profile Re-Flex VSP system.
Connector is for a laminated socket using wedges for alignment.

Component Type: Foot Specific

Connectors

Component Code: 2432A

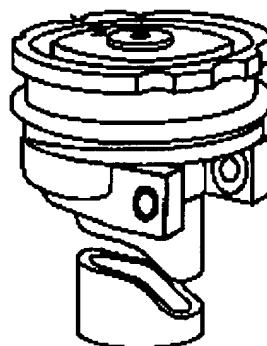
Tested Limits: 100 Kg

Restrictions: Kg

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